

Product name: Acetaldehyde, UV method

Catalogue reference(s): AK00051, 50 tests

Components	AK00051	Safety Information
Solution 1 - Acetaldehyde	1 x 12 mL	See specific MSDS
Solution 2 - Acetaldehyde	1 x Lyophilized content	Not Hazardous *
Suspension 3 - Acetaldehyde	1 x 1,1 mL	Not Hazardous *
Solution 4 - Acetaldehyde	1 x 2 g	See specific MSDS

*The component mentioned above is not classified as hazardous according to CLP Regulation (EC) No 1272/2008. Consequently, does not require a Material Safety Data Sheet (MSDS), according to Regulation (EC) No 1907/2006, emended by Regulation (EC) No 2015/830.



Patrícia Ponte Executive Direction Safety data sheet



This SDS is an English translation of Regulation (EU) n^{o} 2015/830, without any country-specific legislation

AK00051 - Solution 1 - Acetaldehyde

Date of compilation: 13/05/2020 Revised: 28/09/2020 Version: 2 (Replaced 1) SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING 1.1 Product identifier: AK00051 - Solution 1 - Acetaldehyde Relevant identified uses of the substance or mixture and uses advised against: 1.2 Relevant uses: Laboratory. For professional user only. Uses advised against: All uses not specified in this section or in section 7.3 Details of the supplier of the safety data sheet: 1.3 NZYTech Estrada do Paco do Lumiar Campus do Lumiar - Edif. E, r/c 1649-038 Lisboa - Lisboa - Portugal info@nzytech.com www.nzytech.com Emergency telephone number: +351 213 643 514 1.4 Local time: Monday to Friday 9.00 am to 18.00 National Poison Information Centre (Europe UK): +44 0845 4647 (this service is only available to health professionals)

SECTION 2: HAZARDS IDENTIFICATION **

2.1 Classification of the substance or mixture:

CLP Regulation (EC) No 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Eye Irrit. 2: Eye irritation, Category 2, H319

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

Warning



Hazard statements:

Eye Irrit. 2: H319 - Causes serious eye irritation

Precautionary statements:

P264: Wash thoroughly after handling
P280: Wear protective gloves/protective clothing/eye protection/face protection
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337+P313: If eye irritation persists: Get medical advice/attention

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

** Changes with regards to the previous version

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS **

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Mixture of substances

Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

** Changes with regards to the previous version



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS ** (continued)

	Identification		Chemical name/Classification		Concentration
CAS: 7320-34-5		Tetrapotassium pyro	ium pyrophosphate ⁽¹⁾ Self-classified		
EC: Index: REACH:	230-785-7 Non-applicable 01-2119489369-18- XXXX	Regulation 1272/2008	Eye Irrit. 2: H319 - Warning	()	25 - <50 %
CAS: 26628-22-8 EC: 247-852-1 Index: 011-004-00-7 REACH: 01-2119457019-37- XXXX		sodium azide ⁽²⁾	ATP C	CLP00	
		Regulation 1272/2008	Acute Tox. 2: H300; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; EUH032 - Danger		<1 %

⁽²⁾ Substance with a Union workplace exposure limit

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

** Changes with regards to the previous version

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes to the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Safety data Sheet

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use full jet water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

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SECTION 5: FIREFIGHTING MEASURES (continued)

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

6.2 Environmental precautions:

Avoid spillage into the aquatic environment as it contains substances potentially dangerous for this. Contain the product absorbed in hermetically sealed containers. In the case of serious spillage into the aquatic environment notify the relevant authority.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Store in a cool, dry, well-ventilated location

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification	Occupational	Occupational exposure limits		
sodium azide	IOELV (8h)	0.1 mg/m ³		
CAS: 26628-22-8 EC: 247-852-1	IOELV (STEL)	0.3 mg/m ³		

DNEL (Workers):

		Short e	xposure	Long ex	kposure
Identification		Systemic	Local	Systemic	Local
Tetrapotassium pyrophosphate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 7320-34-5	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 230-785-7	Inhalation	Non-applicable	Non-applicable	17,63 mg/m ³	Non-applicable

DNEL (General population):

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
Tetrapotassium pyrophosphate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 7320-34-5	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 230-785-7	Inhalation	Non-applicable	Non-applicable	4,35 mg/m³	Non-applicable

PNEC:

Non-applicable

8.2 Exposure controls:

A.- General security and hygiene measures in the work place

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory hand protection	Protective gloves against minor risks	CATI		Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420:2003+ A1:2009 and EN ISO 374-1:2016

"As the product is a mixture of several substances, the resistance of the glove material can not be predicted in advance with total reliability and has therefore to be checked prior to the application"

D.- Ocular and facial protection

	Pictogram	PPE	Labelling	CEN Standard	Remarks
	Mandatory face protection	Panoramic glasses against splash/projections.		EN 166:2001 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.
E	Body protection				

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Work clothing	CATI		Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.

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		001111020		AL PROTECTI		α)	
	Pictogram	PP	E	Labelling	CEN Stand	ard	Remarks
		Anti-slip w		CAT II	EN ISO 20347	2:2012	place before any evidence of deterioration prodes of prolonged exposure to the produc professional/industrial users CE III is commended, in accordance with the regula in EN ISO 20345:2012 y EN 13832-1:200
F	Additional emerge	ency measure	S				
	Emergency mea	asure	S	tandards	Emerg	ency measure	Standards
	Emergency sho			SI Z358-1 011, ISO 3864-4:201		T ash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:20
	Average carbon n			applicable			
	Average carbon n Average molecula 9: PHYSICAL A	r weight:	Non-	applicable			
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ION Infe For	Average molecula 9: PHYSICAL A ormation on bas complete informa	r weight: AND CHEMI sic physical	Non- CAL PROF	applicable PERTIES ical properties	:		
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ION Infe For App Cold	Average molecula 9: PHYSICAL A complete informa pearance: sical state at 20 % pearance: pour:	nr weight: AND CHEMI sic physical tion see the p	Non- CAL PROF	applicable PERTIES ical properties asheet. Liquid Not a Not a	d wailable wailable		
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Bolling point de denospherie pressurer	
Vapour pressure at 20 °C:	2350 Pa
Vapour pressure at 50 °C:	12381,01 Pa (12,38 kPa)
Evaporation rate at 20 °C:	Non-applicable *
Product description:	
Density at 20 °C:	1369,4 kg/m³
Relative density at 20 °C:	1,369
Dynamic viscosity at 20 °C:	2,2 cP
Kinematic viscosity at 20 °C:	1,61 cSt
Kinematic viscosity at 40 °C:	Non-applicable *
Concentration:	Non-applicable *
pH:	Non-applicable *
Vapour density at 20 °C:	Non-applicable *
Partition coefficient n-octanol/water 20 °C:	Non-applicable *
*Not relevant due to the nature of the product, not providing inform	ation property of its hazards.



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SECTION 9: PHYSICAL AND C	HEMICAL PROPERTIES	S (continued)	
Solubility in water at 20 °C:		Non-applicable *	
Solubility properties:		Non-applicable *	
Decomposition temperature	:	Non-applicable *	
Melting point/freezing point		Non-applicable *	
Explosive properties:		Non-applicable *	
Oxidising properties:		Non-applicable *	
Flammability:			
Flash Point:		Non Flammable (>60 °C)	
Flammability (solid, gas):		Non-applicable *	
Autoignition temperature:		Non-applicable *	
Lower flammability limit:		Non-applicable *	
Upper flammability limit:		Non-applicable *	
Explosive:			
Lower explosive limit:		Non-applicable *	
Upper explosive limit:		Non-applicable *	
9.2 Other information:			
Surface tension at 20 °C:		Non-applicable *	
Refraction index:		Non-applicable *	
*Not relevant due to the nature of	the product, not providing info	mation property of its hazards.	

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Precaution	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION **

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

** Changes with regards to the previous version

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ATE mix		Ingredient(s) of unkno	wn toxicity			
Acute Toxicity Estimate (ATE mix):						
EC: 247-852-1	LC50 inhalatio	n >5 mg/L				
CAS: 26628-22-8	LD50 dermal	>2000 mg/kg				
sodium azide	LD50 oral	10 mg/kg	Rat			
EC: 230-785-7	LC50 inhalatio	5, ()				
CAS: 7320-34-5	LD50 dermal	4640 mg/kg	Rabbit			
Tetrapotassium pyrophosphate	LD50 oral	>2000 mg/kg				
Identification		Acute toxicity	Genus			
Specific toxicology information on the substances:						
Non-applicable						
this effect. For more information see section 3. Other information:						
Based on available data, the classification criteria are not met, as i	t does not contai	n substances classified as o	dangerous fo			
dangerous for this effect. For more information see section 3. H- Aspiration hazard:						
 it does not contain substances classified as dangerous for this effe Skin: Based on available data, the classification criteria are not 			sified as			
 Specific target organ toxicity (STOT)-repeated exposure: Based it does not contain substances classified as dangerous for this effective 			are not met,			
G- Specific target organ toxicity (STOT)-repeated exposure:						
this effect. For more information see section 3.						
Based on available data, the classification criteria are not met, as i	t does not contai	n substances classified as o	dangerous fo			
F- Specific target organ toxicity (STOT) - single exposure:						
 Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3. 						
dangerous with sensitising effects. For more information see section		loes not contain substance	s classified :			
- Respiratory: Based on available data, the classification criteria a		does not contain substance	es classified			
E- Sensitizing effects:						
classified as dangerous for this effect. For more information see se			Substances			
dangerous for this effect. For more information see section 3.Reproductive toxicity: Based on available data, the classification	criteria are not r	net, as it does not contain	substances			
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as						
as dangerous for the effects mentioned. For more information see section 3. IARC: Non-applicable						
- Carcinogenicity: Based on available data, the classification criter		s it does not contain subst	ances classif			
D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduc	tion):					
classified as dangerous for skin contact. For more information seeContact with the eyes: Produces eye damage after contact.	Section 3.					
 Contact with the skin: Based on available data, the classification classified as dangerous for skin contact. For more information see 		met, as it does not contain	substances			
C- Contact with the skin and the eyes (acute effect):						
classified as dangerous for this effect. For more information see se	ction 3.					
- Corrosivity/Irritability: Based on available data, the classification		met, as it does not contain	substances			
 Acute toxicity : Based on available data, the classification criter as dangerous for inhalation. For more information see section 3. 	ia are not met. I	However, it contains substa	inces classifi			
	• • • • • •					
classified as dangerous for this effect. For more information see se B- Inhalation (acute effect):	ction 3.					
- Corrosivity/Irritability: Based on available data, the classification	criteria are not i	met, as it does not contain	substances			
- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.						
	·	· · · · · · · · · · · · · · · · · · ·				
adverse effects on health may result, depending on the means of expo A- Ingestion (acute effect):	sure:					
In case of exposure that is repetitive, prolonged or at concentrations h		commended occupational	exposure lin			
ION 11: TOXICOLOGICAL INFORMATION ** (continued)						
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SECTI	ON 11: TOXICOLOGICAL INFO	RMATION ** (continued)			
	Oral	>2000 mg/kg (Calculation method)	Non-applicable		
	Dermal	>2000 mg/kg (Calculation method)	Non-applicable		
	Inhalation	>20 mg/L (4 h) (Calculation method)	Non-applicable		

** Changes with regards to the previous version

SECTION 12: ECOLOGICAL INFORMATION **

The experimental information related to the eco-toxicological properties of the product itself is not available

Contains phosphates. Excessive discharge may cause eutrophication.

12.1 Toxicity:

odium azide				
Jodum azide	LC50	5.7 mg/L (96 h)	N/A	Fish
CAS: 26628-22-8 EC	EC50	0.5 mg/L (48 h)	N/A	Crustacean
EC: 247-852-1	EC50	0.35 mg/L (96 h)	Pseudokirchneriella subcapitata	Algae

12.2 Persistence and degradability:

Not available

12.3 Bioaccumulative potential:

Not available

12.4 Mobility in soil:

Not available

12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

12.6 Other adverse effects:

Not described

** Changes with regards to the previous version

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
	It is not possible to assign a specific code, as it depends on the intended use by the user	Dangerous

Type of waste (Regulation (EU) No 1357/2014):

HP4 Irritant — skin irritation and eye damage

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2019 and RID 2019:

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SECTION 14: TRANSPORT INFORMATION (continued) 14.1 UN number: Non-applicable 14.2 UN proper shipping name: Non-applicable 14.3 Transport hazard class(es): Non-applicable 14.4 Packing group: Non-applicable 14.5 Environmental hazards: Non-applicable 14.5 Special precautions for user Special requilations: Non-applicable Tunnel restriction code: Non-applicable Non-applicable Non-applicable Tansport in bulk according Non-applicable Non-applicable Non-applicable 14.7 Transport in bulk according to Annex II of Marpol and Non-applicable 14.2 UN proper shipping name: 14.3 Transport hazard class(es): 14.4 Packing group: Non-applicable Non-applicable 14.3 Tonsport hazard class(es): 14.4 Packing group: Non-applicable 14.5 Environmental hazards: Non-applicable 14.6 Special requaltions: Non-applicable 14.6 S	Date of compilation:	13/05/2020 Revised: 28/0	09/2020	Version: 2 (Replaced 1)
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14.6 Special precautions for user			No	
Physico-Chemical properties: see section 9	14.6		see section 9	
14.7 Transport in bulk according Non-applicable to Annex II of Marpol and the IBC Code:	14.7	Transport in bulk according to Annex II of Marpol and		2

SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture:	
	Regulation (EC) No 528/2012: contains a preservative to protect the initial properties of the treated article. Contains sodium azide.	
	Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable	

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

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AK00051 - Solution 1 - Acetaldehyde

Date of compilation: 13/05/2020 Revised: 28/09/2020 Version: 2 (Replaced 1) SECTION 15: REGULATORY INFORMATION (continued) Article 95, REGULATION (EU) No 528/2012: sodium azide (Product-type 6) REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable Seveso III: Non-applicable Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc): Shall not be used in: -ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, -tricks and jokes. -games for one or more participants, or any article intended to be used as such, even with ornamental aspects. Specific provisions in terms of protecting people or the environment: It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product. Other legislation: The product could be affected by sectorial legislation 15.2 Chemical safety assessment: The supplier has not carried out evaluation of chemical safety. SECTION 16: OTHER INFORMATION ** Legislation related to safety data sheets: The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830). Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.: COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11, SECTION 12): New declared substances Tetrapotassium pyrophosphate (7320-34-5) sodium azide (26628-22-8) CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16): Pictograms Hazard statements · Precautionary statements Texts of the legislative phrases mentioned in section 2: H319: Causes serious eye irritation Texts of the legislative phrases mentioned in section 3: The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3 CLP Regulation (EC) No 1272/2008: Acute Tox. 2: H300 - Fatal if swallowed Aquatic Acute 1: H400 - Very toxic to aquatic life Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects Eye Irrit. 2: H319 - Causes serious eye irritation **Classification procedure:** Eye Irrit. 2: Calculation method Advice related to training: Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product. Principal bibliographical sources: http://echa.europa.eu http://eur-lex.europa.eu Abbreviations and acronyms: ** Changes with regards to the previous version

Date of compilation: 13/05/2020 Revised: 28/09/2020

20 Version: 2 (Replaced 1)

Safety data sheet

This SDS is an English translation of Regulation (EU) nº 2015/830, without any country-specific legislation



AK00051 - Solution 1 - Acetaldehyde

Date of compilation: 13/05/2020 Revised: 28/09/2020

Version: 2 (Replaced 1)

SECTION 16: OTHER INFORMATION ** (continued)	
ADR: European agreement concerning the international carriage of dangerous goods by I IMDG: International maritime dangerous goods code IATA: International Air Transport Association ICAO: International Civil Aviation Organisation COD: Chemical Oxygen Demand BOD5: 5-day biochemical oxygen demand BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal Concentration 50 EC50: Effective concentration 50 Log-POW: Octanol-water partition coefficient Koc: Partition coefficient of organic carbon	oad

** Changes with regards to the previous version

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.



Date of	compilation: 13/05/202	20 Revised: 13/05/2020 Version: 2 (Replaced 1)			
SECT	TION 1: IDENTIFICA	ATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING			
1.1	Product identifier:	AK00051 - Solution 2 - Acetaldehyde			
		Nadide			
	CAS:	53-84-9			
	EC:	200-184-4			
	Index:	Non-applicable			
	REACH:	01-2119956153-39-XXXX			
1.2	Relevant identified uses of the substance or mixture and uses advised against:				
	Relevant uses: Laboratory. For professional user only.				
	Uses advised against	: All uses not specified in this section or in section 7.3			
1.3	Details of the supplier of the safety data sheet:				
	NZYTech Estrada do Paco do L 1649-038 Lisboa - Lis info@nzytech.com www.nzytech.com	umiar Campus do Lumiar - Edif. E, r/c sboa - Portugal			
1.4	Emergency telepho	one number: +351 213 643 514 Local time: Monday to Friday 9.00 am to 18.00 National Poison Information Centre (Europe UK): +44 0845 4647 (this service is only available to health professionals)			

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture: CLP Regulation (EC) No 1272/2008:

The product is not classified as hazardous according to CLP Regulation (EC) No 1272/2008.

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

None

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS **

3.1 Substance:

Chemical description: Organic substance

Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

	Identification		Chemical name/Classification	Concentration
CAS:		Nadide	Not classified	
	200-184-4 Non-applicable 01-2119956153-39- XXXX	Regulation 1272/2008		100 %

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

3.2 Mixture:

Non-applicable

** Changes with regards to the previous version

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:



Date of compilation: 13/05/2020 Revised: 13/05/2020 Version: 2 (Replaced 1)

SECT	ION 4: FIRST AID MEASURES (continued)
	Consult a doctor in case of discomfort showing the SDS for the product.
	By inhalation:
	In case of symptoms, move the person affected into fresh air.
	By skin contact:
	In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes to the skin (stinging, redness, rashes, blisters,), seek medical advice with this Safety data Sheet By eye contact:
	Rinse with water until the product has been eliminated. In case of problems, consult a doctor showing the SDS for the product.
	By ingestion/aspiration:
	In case of consumption in large quantities, it is recommended to seek medical assistance.
4.2	Most important symptoms and effects, both acute and delayed:
	Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Product is non-flammable, with a low risk of fire due to the flammabliity characteristics of the product in normal conditions of storage, handling and use. In the case of the existence of sustained combustion as a result of improper handling, storage or use any type of extinguishing agent can be used (ABC Powder, water,...)

5.2 Special hazards arising from the substance or mixture:

Due to its inflammable nature, the product does not present a fire risk under normal conditions of storage, handling and use.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation



SECT	rion 7: Handling	AND STORAGE (cont	inued)			
7.2	Comply with the spills and residue cleanliness where B Technical recommende products. Consult C Technical recommon Do not eat or drim D Technical recommon It is not necessar Conditions for safe A Technical measure Store in a cool, d B General condition	current legislation concers, destroying them with se dangerous products are nendations for the preverted to transfer at a slow spection 10 for conditions nendations to prevent ergon during the process, wan nendations to prevent ency to take special measures for storage ry, well-ventilated locations for storage	ning the preventi afe methods (see used. ntion of fires and beed to avoid the and materials the gonomic and toxi ushing hands afte vironmental risks as to prevent env y incompatibili	ction 6). Avoid leakage explosions creation of electrostal nat should be avoided. cological risks rwards with suitable c ironmental risks. For r ties:	cleaning products. more information see subsection 6.2	
			ctricity and conta	ct with food. For addit	tional information see subsection 10.5	
7.3	Specific end use(s) Except for the instruct product.		is not necessary	to provide any special	I recommendation regarding the uses of this	
SECT	FION 8: EXPOSURE	CONTROLS/PERSON/	AL PR <u>OTECTIC</u>	DN		
8.1	Control parameter	~				
8.1	Control parameter		a hava ta ha ma	nitorod in the workpla		
	Substances whose occupational exposure limits have to be monitored in the workplace					
	Nuisance dust: Inhalable dust 10 mg/m3 // Respirable dust 4 mg/m3					
	DNEL (Workers):					
	Non-applicable					
	DNEL (General population):					
	Non-applicable PNEC:					
	-					
8.2	Non-applicable Exposure controls:					
0	•	and hygiene measures in	the work place			
	marking>> in acc cleaning, mainter information see s All information co as it is not known B Respiratory prote	cordance with Directive 8 hance, class of protection, ubsection 7.1. Intained herein is a recom whether the company h ction	9/686/EC. For mo) consult the ir mendation which as additional mea	ore information on Per nformation leaflet prov n needs some specifica asures at its disposal.	uipment, with the corresponding < <ce sonal Protective Equipment (storage, use, rided by the manufacturer. For more ation from the labour risk prevention services ational exposure limits are exceeded.</ce 	
		PPE	Labolling	CEN Standard	Domarka	
	Pictogram	PPE	Labelling	CEN Standard	Remarks	
	Mandatory hand	Protective gloves against minor risks	CATI		Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420:2003+ A1:2009 and EN ISO 374-1:2016	
	protection					



		CONTROLS/PERSON/		ON (continued)	
5110	IN 6. LAPUSURE	CONTROLS/FLRSON			
	Pictogram	PPE	Labelling	CEN Standard	Remarks
	Mandatory face protection	Panoramic glasses against splash/projections.		EN 166:2001 EN ISO 4007:2018	Clean daily and disinfect periodically according the manufacturer's instructions. Use if there is risk of splashing.
E.	- Body protection				•
	Pictogram	PPE	Labelling	CEN Standard	Remarks
		Work clothing	CATI		Replace before any evidence of deterioration. F periods of prolonged exposure to the product f professional/industrial users CE III is recommended, in accordance with the regulatio in EN ISO 6529:2013, EN ISO 6530:2005, EN I 13688:2013, EN 464:1994.
		Anti-slip work shoes	CAT II	EN ISO 20347:2012	Replace before any evidence of deterioration. F periods of prolonged exposure to the product f professional/industrial users CE III is recommended, in accordance with the regulation in EN ISO 20345:2012 y EN 13832-1:2007
F.	- Additional emerg	ency measures			-
	It is not necessar	ry to take additional emer	gency measure	5.	
Er	nvironmental ex	posure controls:			
W	-	tive 2010/75/EU, this proc	duct has the fol	owing characteristics:	
	V.O.C. (Supply): V.O.C. density at Average carbon i Average molecula	0 % v 20 °C: 0 kg/ number: Non-a ar weight: Non-a	weight m ³ (0 g/L) applicable applicable	owing characteristics:	
	V.O.C. (Supply): V.O.C. density at Average carbon i Average molecula	0 % v 20 °C: 0 kg/ number: Non-a	weight m ³ (0 g/L) applicable applicable	owing characteristics:	
CTIO	V.O.C. (Supply): V.O.C. density at Average carbon i Average molecula DN 9: PHYSICAL	0 % v 20 °C: 0 kg/ number: Non-a ar weight: Non-a	weight m ³ (0 g/L) applicable applicable PERTIES		
CTIO Ir	V.O.C. (Supply): V.O.C. density at Average carbon in Average molecula DN 9: PHYSICAL	0 % v 20 °C: 0 kg/ number: Non-a ar weight: Non-a AND CHEMICAL PROP	weight m ³ (0 g/L) applicable applicable PERTIES		
CTIO Ir Fc A	V.O.C. (Supply): V.O.C. density at Average carbon in Average molecula NN 9: PHYSICAL Information on bas or complete information appearance:	0 % v 20 °C: 0 kg/ number: Non-a ar weight: Non-a AND CHEMICAL PROP sic physical and chemi ation see the product data	weight m ³ (0 g/L) applicable applicable PERTIES ical properties asheet.	:	
CTIO Ir Fc Al Pł	V.O.C. (Supply): V.O.C. density at Average carbon of Average molecular Average molecular DN 9: PHYSICAL Information on ba or complete information appearance: hysical state at 20 0	0 % v 20 °C: 0 kg/ number: Non-a ar weight: Non-a AND CHEMICAL PROP sic physical and chemi ation see the product data	weight m ³ (0 g/L) applicable PERTIES ical properties asheet. Solid	:	
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СТ1О Гг Ај Рł Аџ Сс	V.O.C. (Supply): V.O.C. density at Average carbon in Average molecular N 9: PHYSICAL Information on bar or complete information or complete information ppearance: hysical state at 20 of ppearance: olour:	0 % v 20 °C: 0 kg/ number: Non-a ar weight: Non-a AND CHEMICAL PROP sic physical and chemi ation see the product data	weight m ³ (0 g/L) applicable PERTIES ical properties asheet. Solid Not a	: available available	
CTIO Ir Fc Ar Pr Ar Cc Ou	V.O.C. (Supply): V.O.C. density at Average carbon of Average molecular overage molecular DN 9: PHYSICAL Information on ba or complete information or complete information or complete information opearance: hysical state at 20 of ppearance: olour:	0 % v 20 °C: 0 kg/ number: Non-a ar weight: Non-a AND CHEMICAL PROP sic physical and chemi ation see the product data	weight m ³ (0 g/L) applicable PERTIES ical properties asheet. Solid Not a Not a	available available available	
CTIO Fc Ap CC Ou Ou	V.O.C. (Supply): V.O.C. density at Average carbon in Average molecula DN 9: PHYSICAL Information on ba or complete information complete information pearance: hysical state at 20 of ppearance: olour: dour: dour:	0 % v 20 °C: 0 kg/ number: Non-a ar weight: Non-a AND CHEMICAL PROP sic physical and chemi ation see the product data	weight m ³ (0 g/L) applicable PERTIES ical properties asheet. Solid Not a Not a	: available available	
CTIO Ir Fc Ap Cc Ou Ou V	V.O.C. (Supply): V.O.C. density at Average carbon in Average molecular overage molecular DN 9: PHYSICAL Information on ba or complete information or complete information or complete information or complete information of complete information	0 % v 20 °C: 0 kg/ number: Non-a ar weight: Non-a AND CHEMICAL PROP sic physical and chemi ation see the product data	weight m ³ (0 g/L) applicable PERTIES ical properties asheet. Solid Not a Not a Not a	available available available applicable *	
CTIO Ir Fc Ar Pr Ar Cc Ou Ou Ou Bc	V.O.C. (Supply): V.O.C. density at Average carbon in Average molecular overage molecular DN 9: PHYSICAL Information on ba or complete information or complete information or complete information or complete information of complete information	0 % v 20 °C: 0 kg/ number: Non-a ar weight: Non-a AND CHEMICAL PROP sic physical and chemi ation see the product data PC:	weight m ³ (0 g/L) applicable PERTIES ical properties asheet. Solid Not a Not a Not a Not a	available available available applicable * applicable *	
СТІО Іг Ар РР Ар Сс Ос Ос Ос Ос Ос Ос Ос Ос Ос Ос Ос Ос Ос	V.O.C. (Supply): V.O.C. density at Average carbon in Average molecular N 9: PHYSICAL Information on ba or complete information or complete information or complete information or complete information of complete informa	0 % v 20 °C: 0 kg/ number: Non-a ar weight: Non-a AND CHEMICAL PROP sic physical and chemi ation see the product data PC:	weight m ³ (0 g/L) applicable PERTIES ical properties asheet. Solid Not a Not a Not a Non-	available available available applicable * applicable * applicable *	
CTIO Ir Fc Ap PP Ap Cc Ou Ou Vu Bc Va Va	V.O.C. (Supply): V.O.C. density at Average carbon in Average molecular overage molecular DN 9: PHYSICAL Information on ba or complete information or complete information or complete information or complete information of complete information	0 % v 20 °C: 0 kg/ number: Non-a ar weight: Non-a AND CHEMICAL PROP sic physical and chemi ation see the product data PC: spheric pressure: 20 °C: 50 °C:	weight m ³ (0 g/L) applicable PERTIES ical properties asheet. Solid Not a Not a Not a Non- Non- Non-	available available available applicable * applicable * applicable * applicable *	
CTIO Fc A P P A F C C O O O O V a B C C C O O O V a B C E V a B C E C C C C C O O O O O C C C O O C C C C	V.O.C. (Supply): V.O.C. density at Average carbon in Average molecular N 9: PHYSICAL Information on bar or complete information or complete information or complete information or complete information of complete inform	0 % v 20 °C: 0 kg/ number: Non-a ar weight: Non-a AND CHEMICAL PROP sic physical and chemi ation see the product data PC: spheric pressure: 20 °C: 50 °C: 20 °C:	weight m ³ (0 g/L) applicable PERTIES ical properties asheet. Solid Not a Not a Not a Non- Non- Non-	available available available applicable * applicable * applicable *	
CTIO Ir Fc Ap Pr Ap CC Ou Ou Ou Ou Ou Ou Ou Ou Ou Ou Ou Ou Ou	V.O.C. (Supply): V.O.C. density at Average carbon in Average molecular N 9: PHYSICAL Information on ba or complete information or complete information or complete information or complete information of complete informa	0 % v 20 °C: 0 kg/ number: Non-a ar weight: Non-a AND CHEMICAL PROP sic physical and chemi ation see the product data PC: spheric pressure: 20 °C: 50 °C: 20 °C:	weight m ³ (0 g/L) applicable PERTIES ical properties asheet. Solid Not a Not a Non- Non- Non- Non- Non-	available available available applicable * applicable * applicable * applicable * applicable *	
CTIO Ir Fc Ap PP Ap Cc Ou Ou Va Bc Va Ev Va Ev Va	V.O.C. (Supply): V.O.C. density at Average carbon in Average molecular overage molecular DN 9: PHYSICAL Information on ba or complete information or complete information or complete information or complete information or complete information or complete information or complete information of complete information	0 % v 20 °C: 0 kg/ number: Non-a ar weight: Non-a AND CHEMICAL PROP sic physical and chemi ation see the product data PC: spheric pressure: 20 °C: 50 °C: 20 °C: 50 °C: 20 °C: 51 °C: 52 °C:	weight m ³ (0 g/L) applicable PERTIES ical properties asheet. Solid Not a Not a Non- Non- Non- Non- Non- Non-	available available available applicable * applicable * applicable * applicable *	
CTIO Ir Fc A P P A F CC O O O O V a Bo Bo Va Bo Va E V T P I D O R	V.O.C. (Supply): V.O.C. density at Average carbon in Average molecular N 9: PHYSICAL Information on ba or complete information or complete information or complete information or complete information of complete informa	0 % v 20 °C: 0 kg/ number: Non-a ar weight: Non-a AND CHEMICAL PROP sic physical and chemi ation see the product data PC: spheric pressure: 20 °C: 20 °C: 20 °C: 20 °C: 0 °C:	weight m ³ (0 g/L) applicable applicable PERTIES ical properties asheet. Solid Not a Not a Non- Non- Non- Non- Non- Non- Non- Non-	available available available applicable * applicable * applicable * applicable * applicable *	

- CONTINUED ON NEXT PAGE -

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SECTION 9: PHYSICAL AND CH	HEMICAL PROPERTIES	G (continued)	
Kinematic viscosity at 20 °C:		Non-applicable *	
Kinematic viscosity at 40 °C:		Non-applicable *	
Concentration:		Non-applicable *	
pH:		Non-applicable *	
Vapour density at 20 °C:		Non-applicable *	
Partition coefficient n-octano	l/water 20 ºC:	Non-applicable *	
Solubility in water at 20 °C:		Non-applicable *	
Solubility properties:		Non-applicable *	
Decomposition temperature:		Non-applicable *	
Melting point/freezing point:		Non-applicable *	
Explosive properties:		Non-applicable *	
Oxidising properties:		Non-applicable *	
Flammability:			
Flash Point:		Non-applicable	
Flammability (solid, gas):		Non-applicable *	
Autoignition temperature:		Non-applicable *	
Lower flammability limit:		Non-applicable *	
Upper flammability limit:		Non-applicable *	
Explosive:			
Lower explosive limit:		Non-applicable *	
Upper explosive limit:		Non-applicable *	
9.2 Other information:			
Surface tension at 20 °C:		Non-applicable *	
Refraction index:		Non-applicable *	
*Not relevant due to the nature of	the product, not providing infor	mation property of its hazards.	

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

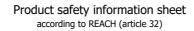
10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Not applicable	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds.

** Changes with regards to the previous version





compilation: 13/05/2020	Revised: 13/05/2020	Version: 2 (Replaced 1)					
TION 11: TOXICOLOGICA	_ INFORMATION **						
Information on toxicolog	ical effects:						
LD50 oral > 2000 mg/kg (rat)							
Dangerous health implica	tions:						
In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure adverse effects on health may result, depending on the means of exposure: A- Ingestion (acute effect):							
	Based on available data, th	ification criteria are not met e classification criteria are not met					
	Based on available data, th	ification criteria are not met e classification criteria are not met					
	: Based on available data, th	e classification criteria are not met ne classification criteria are not met ty to reproduction):					
IARC: Non-applicable - Mutagenicity: Based o	n available data, the classifi	sification criteria are not met cation criteria are not met e classification criteria are not met					
	available data, the classifica available data, the classifica city (STOT) - single exposu	tion criteria are not met					
Based on available data,	the classification criteria are	e not met					
G- Specific target organ toxi	city (STOT)-repeated expos	ure:					
	oxicity (STOT)-repeated exposed exponential exponenti exponential exponential exponential exponential exponential	posure: Based on available data, the classification criteria are not met iteria are not met					
Based on available data,	the classification criteria are	e not met					
Other information:							
Non-applicable							
	ation on the substances						
Specific toxicology inform	nation on the substances						
	Identification	Acute toxicity Genus					
Nadide		LD50 oral >2000 mg/kg					
CAS: 53-84-9		LD50 dermal >2000 mg/kg					
EC: 200-184-4		LC50 inhalation >5 mg/L					

SECTION 12: ECOLOGICAL INFORMATION	

- 12.1 Toxicity:
 - Not available
- 12.2 Persistence and degradability:

Not available

12.3 Bioaccumulative potential:

Not available

12.4 Mobility in soil:



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SECTION 12: ECOLOGICAL INFORMATION (continued)

Not available

12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
16 03 06	organic wastes other than those mentioned in 16 03 05	Non dangerous

Type of waste (Regulation (EU) No 1357/2014):

Non-applicable

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

Non-applicable

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2019 and RID 2019:

- 14.1 UN number:
- 14.2 UN proper shipping name: Non-applicable 14.3 Transport hazard class(es): Non-applicable Non-applicable Labels: 14.4 Packing group: Non-applicable 14.5 Environmental hazards: No 14.6 Special precautions for user Special regulations: Non-applicable Tunnel restriction code: Non-applicable Physico-Chemical properties: see section 9 Limited quantities: Non-applicable 14.7 Transport in bulk according Non-applicable to Annex II of Marpol and the IBC Code: Transport of dangerous goods by sea: With regard to IMDG 39-18:



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AK00051 - Solution 2 - Acetaldehyde

Version: 2 (Replaced 1)

Revised: 13/05/2020

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SECTION 14: T	RANSPORT INFORMATION (continued)	
14.1	UN number:	Non-applicable	2
14.2	UN proper shipping name:	Non-applicable	
14.3	Transport hazard class(es):	Non-applicable	2
	Labels:	Non-applicable	2
14.4	Packing group:	Non-applicable	2
14.5	Environmental hazards:	No	
14.6	Special precautions for user		
	Special regulations:	Non-applicable	2
	EmS Codes:		
	Physico-Chemical properties:	see section 9	
	Limited quantities:	Non-applicable	
	Segregation group:	Non-applicable	
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable	2
Transpo	rt of dangerous goods by air:		
With rega	ard to IATA/ICAO 2020:		
14.1	UN number:	Non-applicable	
14.2	UN proper shipping name:	Non-applicable	,
14.3	Transport hazard class(es):	Non-applicable	2
	Labels:	Non-applicable	2
14.4	Packing group:	Non-applicable	2
14.5	Environmental hazards:	No	
14.6	Special precautions for user		
	Physico-Chemical properties:	see section 9	
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable	

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Seveso III:

Non-applicable

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):

Non-applicable

Specific provisions in terms of protecting people or the environment:

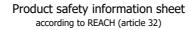
It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.





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SECTION 16: OTHER INFORM	IATION	
Regulation (EC) No 1907/20 Modifications related to	been designed in accordance 106 (Regulation (EC) No 2015	Sheet which concerns the ways of managing risks.:
New declared substance Nadide (53-84-9)	s	
. ,	hrases mentioned in sect	ion 3:
The phrases indicated do no individual components whic		they are present merely for informative purposes and refer to the
CLP Regulation (EC) No Non-applicable	1272/2008:	
Advice related to training	a:	
Minimal training is recomme	ended in order to prevent ind	ustrial risks for staff using this product and to facilitate their set, as well as the label on the product.
Principal bibliographical	sources:	
http://echa.europa.eu http://eur-lex.europa.eu		
Abbreviations and acron	yms:	
ADR: European agreement IMDG: International maritim IATA: International Air Trans	ne dangerous goods code	carriage of dangerous goods by road
ICAO: International Civil Avi COD: Chemical Oxygen Den	ation Organisation	
BOD5: 5-day biochemical ox		
BCF: Bioconcentration facto	r	
LD50: Lethal Dose 50 LC50: Lethal Concentration	F0	
EC50: Effective concentration		
Log-POW: Octanol-water pa		
Koc: Partition coefficient of		
L		

Product safety information sheet prepared in accordance with Article 32 of Regulation (EC) 1907/2006 (REACH); this document does not constitute a Safety Data Sheet under Article 31 of Regulation (EC) No. 1907/2006, as a Safety Data Sheet is not mandatory for this product The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.



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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING 1.1 Product identifier: AK00051 - Suspension 3 - Acetaldehyde 1.2 Relevant identified uses of the substance or mixture and uses advised against: Relevant uses: Laboratory. For professional user only. Uses advised against: All uses not specified in this section or in section 7.3 Details of the supplier of the safety data sheet: 1.3 NZYTech Estrada do Paco do Lumiar Campus do Lumiar - Edif. E, r/c 1649-038 Lisboa - Lisboa - Portugal info@nzytech.com www.nzytech.com Emergency telephone number: +351 213 643 514 1.4 Local time: Monday to Friday 9.00 am to 18.00 National Poison Information Centre (Europe UK): +44 0845 4647 (this service is only available to health professionals)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture: CLP Regulation (EC) No 1272/2008: The product is not classified as hazardous according to CLP Regulation (EC) No 1272/2008.

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

None

2.3 Other hazards: Product fails to meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Mixture of substances

Components:

None of the substances contained in the mixture are above the values fixed in Annex II of Regulation (EC) No 1907/2006

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

Consult a doctor in case of discomfort showing the SDS for the product.

By inhalation:

In case of symptoms, move the person affected into fresh air.

By skin contact:

In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes to the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Safety data Sheet

By eye contact:

Rinse with water until the product has been eliminated. In case of problems, consult a doctor showing the SDS for the product.

By ingestion/aspiration:

In case of consumption in large quantities, it is recommended to seek medical assistance.

4.2 Most important symptoms and effects, both acute and delayed:



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SECTION 4: FIRST AID MEASURES (continued)

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Product is non-flammable, with a low risk of fire due to the flammabliity characteristics of the product in normal conditions of storage, handling and use. In the case of the existence of sustained combustion as a result of improper handling, storage or use any type of extinguishing agent can be used (ABC Powder, water,...)

5.2 Special hazards arising from the substance or mixture:

Due to its inflammable nature, the product does not present a fire risk under normal conditions of storage, handling and use.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

It is recommended to transfer at a slow speed to avoid the creation of electrostatic charges that could affect flammable products. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is not necessary to take special measures to prevent environmental risks. For more information see subsection 6.2

7.2 Conditions for safe storage, including any incompatibilities:



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SECTION 7: HANDLING AND STORAGE (continued)

A.- Technical measures for storage

Store in a cool, dry, well-ventilated location

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace

There are no occupational exposure limits for the substances contained in the product

DNEL (Workers):

Non-applicable

DNEL (General population):

Non-applicable

PNEC:

Non-applicable

8.2 Exposure controls:

A.- General security and hygiene measures in the work place

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory hand protection	Protective gloves against minor risks	CATI		Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420:2003+ A1:2009 and EN ISO 374-1:2016

"As the product is a mixture of several substances, the resistance of the glove material can not be predicted in advance with total reliability and has therefore to be checked prior to the application"

D.- Ocular and facial protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory face	Panoramic glasses against splash/projections.		EN 166:2001 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Body protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Work clothing	CATI		Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.



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SECTI	ON 8: EXPOSURE	CONTROLS/PERSON	AL PROTECT	ION (continued)	
	Pictogram	PPE	Labelling	CEN Standard	Remarks
		Anti-slip work shoes		EN ISO 20347:2012	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2012 y EN 13832-1:2007
	F Additional emerge				
	It is not necessary	v to take additional eme	rgency measure	S.	
	Environmental exp	osure controls:			
		roduct and its container.		on of the environment it in nformation see subsection	is recommended to avoid environmental n 7.1.D
,	With regard to Directi	ve 2010/75/EU, this pro	duct has the fol	lowing characteristics:	
	V.O.C. (Supply):	0 %	weight		
1	V.O.C. density at 2	20 °C: 0 kg,	/m³ (0 g/L)		
l	Average carbon n		applicable		
l	Average molecula	r weight: Non-	applicable		
SECTI	ON 9: PHYSICAL A	ND CHEMICAL PRO	PERTIES		
9.1	Information on bas	ic physical and chem	ical properties	5:	
	For complete information	tion see the product dat	asheet.		
	Appearance:				
	Physical state at 20 %	C:	Liqui	id	
	Appearance:			available	
	Colour:			available	
	Odour:			available	
	Odour threshold:		Non-	-applicable *	
	Volatility:	phorie processo	100	00	
	Boiling point at atmos Vapour pressure at 20		2350		
	Vapour pressure at 50			31,01 Pa (12,38 kPa)	
	Evaporation rate at 20			-applicable *	
	Product description			applicable	
	Density at 20 °C:		1252	2,5 kg/m³	
	Relative density at 20	°C:	1,25	-	
	Dynamic viscosity at 2	20 °C:	2,11	сР	
	Kinematic viscosity at	20 °C:	1,68	cSt	
	Kinematic viscosity at	40 °C:	Non-	applicable *	
	Concentration:		Non-	applicable *	
	pH:		Non-	applicable *	
	Vapour density at 20	°C:	Non-	-applicable *	
	Partition coefficient n-		Non-	applicable *	
	Solubility in water at 2	20 °C:		-applicable *	
	Solubility properties:			-applicable *	
	Decomposition tempe			applicable *	
:	*Not relevant due to the n	ature of the product, not pro	viding information p	property of its hazards.	



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SECT	TON 9: PHYSICAL AND CHEMICAL PROPERTIES	(continued)
	Melting point/freezing point:	Non-applicable *
	Explosive properties:	Non-applicable *
	Oxidising properties:	Non-applicable *
	Flammability:	
	Flash Point:	Non Flammable (>60 °C)
	Flammability (solid, gas):	Non-applicable *
	Autoignition temperature:	Non-applicable *
	Lower flammability limit:	Non-applicable *
	Upper flammability limit:	Non-applicable *
	Explosive:	
	Lower explosive limit:	Non-applicable *
	Upper explosive limit:	Non-applicable *
9.2	Other information:	
	Surface tension at 20 °C:	Non-applicable *
	Refraction index:	Non-applicable *
	*Not relevant due to the nature of the product, not providing inform	nation property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Not applicable	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

LD50 oral > 2000 mg/kg (rat)

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

Acute toxicity : Based on available data, the classification criteria are not met

- Corrosivity/Irritability: Based on available data, the classification criteria are not met



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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- B- Inhalation (acute effect):
 - Acute toxicity : Based on available data, the classification criteria are not met
- Corrosivity/Irritability: Based on available data, the classification criteria are not met C- Contact with the skin and the eyes (acute effect):
 - Contact with the skin: Based on available data, the classification criteria are not met
 - Contact with the eyes: Based on available data, the classification criteria are not met
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
 - Carcinogenicity: Based on available data, the classification criteria are not met IARC: Non-applicable
 - Mutagenicity: Based on available data, the classification criteria are not met
 - Reproductive toxicity: Based on available data, the classification criteria are not met
- E- Sensitizing effects:
 - Respiratory: Based on available data, the classification criteria are not met
 - Cutaneous: Based on available data, the classification criteria are not met
- F- Specific target organ toxicity (STOT) single exposure:

Based on available data, the classification criteria are not met

- G- Specific target organ toxicity (STOT)-repeated exposure:
 - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met
 - Skin: Based on available data, the classification criteria are not met
- H- Aspiration hazard:

Based on available data, the classification criteria are not met

Other information:

Non-applicable

Specific toxicology information on the substances:

Not available

Acute Toxicity Estimate (ATE mix):

ATE mix		Ingredient(s) of unknown toxicity	
Oral	>2000 mg/kg (Calculation method)	Non-applicable	
Dermal	>2000 mg/kg (Calculation method)	Non-applicable	
Inhalation	>20 mg/L (4 h) (Calculation method)	Non-applicable	

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Toxicity:

Not available

12.2 Persistence and degradability:

Not available

12.3 Bioaccumulative potential:

Not available

12.4 Mobility in soil:

Not available

12.5 Results of PBT and vPvB assessment: Product fails to meet PBT/vPvB criteria

12.6 Other adverse effects:

Not described



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SECTION 13: DISPOSAL CONSIDERATIONS 13.1 Waste treatment methods: Code Description Waste class (Regulation (EU) No 1357/2014) It is not possible to assign a specific code, as it depends on the intended use by the user Non dangerous

Type of waste (Regulation (EU) No 1357/2014):

Non-applicable

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2019 and RID 2019:

14.1	UN number:	Non-applicable
14.2	UN proper shipping name:	Non-applicable
14.3	Transport hazard class(es):	Non-applicable
	Labels:	Non-applicable
14.4	Packing group:	Non-applicable
14.5	Environmental hazards:	No
14.6	Special precautions for user	
	Special regulations:	Non-applicable
	Tunnel restriction code:	Non-applicable
	Physico-Chemical properties:	see section 9
	Limited quantities:	Non-applicable
14.7	Transport in bulk according	Non-applicable
	to Annex II of Marpol and	
-	the IBC Code:	
-	rt of dangerous goods by sea:	
With rega	ard to IMDG 39-18:	
14.1	UN number:	Non-applicable
14.2	UN proper shipping name:	Non-applicable
14.3	Transport hazard class(es):	Non-applicable
	Labels:	Non-applicable
14.4	Packing group:	Non-applicable
14.5	Environmental hazards:	No
14.6		
	Special regulations:	Non-applicable
	EmS Codes:	
	Physico-Chemical properties:	see section 9
	Limited quantities:	Non-applicable
	Segregation group:	Non-applicable
14.7		Non-applicable
	to Annex II of Marpol and the IBC Code:	
Transpo	the IBC Code: rt of dangerous goods by air:	
-		
With rega	ard to IATA/ICAO 2020:	



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SECTION 14: T	RANSPORT INFORMATION (continued)
14.1	UN number:	Non-applicable
14.2	UN proper shipping name:	Non-applicable
14.3	Transport hazard class(es):	Non-applicable
	Labels:	Non-applicable
14.4	Packing group:	Non-applicable
14.5	Environmental hazards:	No
14.6	Special precautions for user	
	Physico-Chemical properties:	see section 9
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Seveso III:

Non-applicable

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):

Non-applicable

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830)

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.: Non-applicable

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:

Non-applicable

Classification procedure:

Non-applicable

Advice related to training:

Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:



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h	ttp://echa.europa.eu
	ttp://eur-lex.europa.eu
	bbreviations and acronyms:
А	DR: European agreement concerning the international carriage of dangerous goods by road
I	MDG: International maritime dangerous goods code
I/	ATA: International Air Transport Association
	CAO: International Civil Aviation Organisation
C	COD: Chemical Oxygen Demand
В	OD5: 5-day biochemical oxygen demand
В	ICF: Bioconcentration factor
L	D50: Lethal Dose 50
L	C50: Lethal Concentration 50
E	C50: Effective concentration 50
L	og-POW: Octanol-water partition coefficient
K	xoc: Partition coefficient of organic carbon

Product safety information sheet prepared in accordance with Article 32 of Regulation (EC) 1907/2006 (REACH); this document does not constitute a Safety Data Sheet under Article 31 of Regulation (EC) No. 1907/2006, as a Safety Data Sheet is not mandatory for this product The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

Safety data sheet This SDS is an English translation of Regulation (EU) nº 2015/830, without any country-specific legislation

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AK00051 - Solution 4 - Acetaldehyde

ate of	compilation: 13/05/20	020 Revised: 28/09/2020 Version: 2 (Replaced 1)					
SECT	TION 1: IDENTIFI	CATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING					
1.1	Product identifier	r: AK00051 - Solution 4 - Acetaldehyde					
		Acetaldehyde ammonia trimer					
	CAS:	58052-80-5					
	EC:	676-562-1					
	Index:	Non-applicable					
	REACH:	Non-applicable					
1.2	Relevant identifie	ed uses of the substance or mixture and uses advised against:					
	Relevant uses: Laboratory. For professional user only.						
	Uses advised against: All uses not specified in this section or in section 7.3						
1.3	Details of the supplier of the safety data sheet:						
	NZYTech Estrada do Paco do Lumiar Campus do Lumiar - Edif. E, r/c 1649-038 Lisboa - Lisboa - Portugal info@nzytech.com www.nzytech.com						
1.4	Emergency telep	hone number: +351 213 643 514 Local time: Monday to Friday 9.00 am to 18.00 National Poison Information Centre (Europe UK): +44 0845 4647 (this service is only available to health professionals)					
SECT	TION 2: HAZARDS	IDENTIFICATION **					
2.1	Classification of t	he substance or mixture:					
	CLP Regulation (EC) No 1272/2008:					
	Classification of this	s product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.					
	Skin Irrit. 2: Skin ir	tation, Category 2, H319 ritation, Category 2, H315 atory tract toxicity, single exposure, Category 3, H335					

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

Warning



2.3

Hazard statements:

Eye Irrit. 2: H319 - Causes serious eye irritation Skin Irrit. 2: H315 - Causes skin irritation STOT SE 3: H335 - May cause respiratory irritation

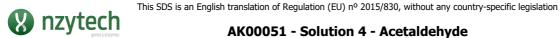
Precautionary statements:

P264: Wash thoroughly after handling P271: Use only outdoors or in a well-ventilated area P280: Wear protective gloves/protective clothing/eye protection/face protection P302+P352: IF ON SKIN: Wash with plenty of water P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P403+P233: Store in a well-ventilated place. Keep container tightly closed P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively **Other hazards:**

Product fails to meet PBT/vPvB criteria

** Changes with regards to the previous version

Safety data sheet



AK00051 - Solution 4 - Acetaldehyde

Date of compilation: 13/05/2020 Revised: 28/09/2020 Version: 2 (Replaced 1)

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS **

3.1 Substance:

Chemical description: Organic substance

Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

	Identification	Chemical name/Classification			Concentration
CAS:		Acetaldehyde ammoi	nia trimer	Self-classified	
Index:	676-562-1 Non-applicable Non-applicable	Regulation 1272/2008	Eye Irrit. 2: H319; Skin Irrit. 2: H315; STOT SE 3: H335 - Warning	()	100 %

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

3.2 Mixture:

Non-applicable

** Changes with regards to the previous version

SECTION 4: FIRST AID MEASURES

4.1 **Description of first aid measures:**

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 **Extinguishing media:**

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use full jet water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

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AK00051 - Solution 4 - Acetaldehyde

Date of compilation: 13/05/2020 Revised: 28/09/2020 Version: 2 (Replaced 1) SECTION 5: FIREFIGHTING MEASURES (continued) Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC. Additional provisions: Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium. SECTION 6: ACCIDENTAL RELEASE MEASURES 6.1 Personal precautions, protective equipment and emergency procedures: Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal 6.2 **Environmental precautions:** This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water. 6.3 Methods and material for containment and cleaning up: It is recommended:

Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Due to its inflammable nature, the product does not present a fire risk under normal conditions of storage, handling and use.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Store in a cool, dry, well-ventilated location

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Nuisance dust: Inhalable dust 10 mg/m3 // Respirable dust 4 mg/m3

This SDS is an English translation of Regulation (EU) nº 2015/830, without any country-specific legislation



AK00051 - Solution 4 - Acetaldehyde

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CTIC	on 8: exposure	CONTROLS/PERSON	AL PROTECTI	.ON ((continued)				
D	NEL (Workers):								
Ν	lon-applicable								
D	NEL (General pop	oulation):							
Ν	lon-applicable								
Ρ	NEC:								
Ν	lon-applicable								
E	xposure controls	:							
A General security and hygiene measures in the work place									
В	As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding < <ce marking="">> in accordance with Directive 89/686/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal. B Respiratory protection</ce>								
	Pictogram	PPE	Labelling		CEN Standard		Remarks		
	Mandatory respiratory tract protection	Filter mask for gases and vapours		EN	I 405:2001+A1:2009	c	place when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is commended to use isolation equipment.		
С	Specific protectio	n for the hands							
	Pictogram	PPE	Labelling		CEN Standard		Remarks		
	Mandatory hand protection	Protective gloves against minor risks	CATI			prolo profess	ce gloves in case of any sign of damage. For nged periods of exposure to the product for sional users/industrials, we recommend usin gloves in line with standards EN 420:2003+ A1:2009 and EN ISO 374-1:2016		
D	Ocular and facial	protection							
	Pictogram	PPE	Labelling		CEN Standard		Remarks		
	Mandatory face protection	Panoramic glasses against splash/projections.			EN 166:2001 EN ISO 4007:2018		a daily and disinfect periodically according to nanufacturer 's instructions. Use if there is a risk of splashing.		
E	- Body protection		I						
	Pictogram	PPE	Labelling		CEN Standard		Remarks		
		Work clothing	CATI			perio recom	ce before any evidence of deterioration. For ds of prolonged exposure to the product for professional/industrial users CE III is mended, in accordance with the regulations ISO 6529:2013, EN ISO 6530:2005, EN ISC 13688:2013, EN 464:1994.		
		Anti-slip work shoes		E	EN ISO 20347:2012	perio recom	ce before any evidence of deterioration. For ds of prolonged exposure to the product for professional/industrial users CE III is nmended, in accordance with the regulations EN ISO 20345:2012 y EN 13832-1:2007		
F	- Additional emerge	ency measures							
	Emergency mea	asure St	andards		Emergency meas	ure	Standards		
	Emergency sh	ISO 3864-1:20	SI Z358-1 11, ISO 3864-4:20	11	Eyewash station	15	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011		
E	nvironmental exp	osure controls:							
6									



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SECTION 8: EXPOSURE CONTROLS/PE	RSONAL PROTECTION (continued)
spillage of both the product and its cor Volatile organic compounds:	islation for the protection of the environment it is recommended to avoid environmental ntainer. For additional information see subsection 7.1.D
	this product has the following characteristics:
V.O.C. (Supply):	0 % weight
V.O.C. density at 20 °C:	0 kg/m ³ (0 g/L)
Average carbon number:	Non-applicable
Average molecular weight:	Non-applicable
SECTION 9: PHYSICAL AND CHEMICAL	PROPERTIES
9.1 Information on basic physical and	chemical properties:
For complete information see the prod	uct datasheet.
Appearance:	
Physical state at 20 °C:	Solid
Appearance:	Crystalline
Colour:	White
Odour:	Not available
Odour threshold:	Non-applicable *
Volatility:	
Boiling point at atmospheric pressure:	Non-applicable *
Vapour pressure at 20 °C:	Non-applicable *
Vapour pressure at 50 °C:	Non-applicable *
Evaporation rate at 20 °C:	Non-applicable *
Product description:	
Density at 20 °C:	Non-applicable *
Relative density at 20 °C:	Non-applicable *
Dynamic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 40 °C:	Non-applicable *
Concentration:	Non-applicable *
pH:	Non-applicable *
Vapour density at 20 °C:	Non-applicable *
Partition coefficient n-octanol/water 20) °C: Non-applicable *
Solubility in water at 20 °C:	Non-applicable *
Solubility properties:	Water-soluble
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Explosive properties:	Non-applicable *
Oxidising properties:	Non-applicable *
Flammability:	
Flash Point:	Non-applicable
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	Non-applicable *
Lower flammability limit:	Non-applicable *
*Not relevant due to the nature of the product,	not providing information property of its hazards.

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SECTION 9: PHYSICAL A	ND CHEMICAL PROPERTIES	S (continued)	
Upper flammability lin	nit:	Non-applicable *	
Explosive:			
Lower explosive limit:		Non-applicable *	
Upper explosive limit:		Non-applicable *	
9.2 Other information:			
Surface tension at 20	°C:	Non-applicable *	
Refraction index:		Non-applicable *	
*Not relevant due to the n	ature of the product, not providing infor	rmation property of its hazards.	

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Not applicable	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION **

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

- A- Ingestion (acute effect):
 - Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified
 - as dangerous for consumption. For more information see section 3.

- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

- B- Inhalation (acute effect):
 - Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation. For more information see section 3.
 - Corrosivity/Irritability: Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.
- C- Contact with the skin and the eyes (acute effect):

** Changes with regards to the previous version

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ION 11: TOXICOLOGICAL INFORMATION ** (con		
 Contact with the skin: Produces skin inflammation. Contact with the eyes: Produces eye damage after 	contact.	
D- CMR effects (carcinogenicity, mutagenicity and toxicity		
 Carcinogenicity: Based on available data, the classifias dangerous for the effects mentioned. For more info IARC: Non-applicable Mutagenicity: Based on available data, the classifica dangerous for this effect. For more information see see Reproductive toxicity: Based on available data, the classified as dangerous for this effect. For more inform E- Sensitizing effects: 	rmation see section 3. ation criteria are not met, as it does not contain su ction 3. classification criteria are not met, as it does not co	ibstances classified
 Respiratory: Based on available data, the classificat 	ion criteria are not met, as it does not contain sub	stances classified
 dangerous with sensitising effects. For more informatic Cutaneous: Based on available data, the classificati dangerous for this effect. For more information see se F- Specific target organ toxicity (STOT) - single exposure 	on see section 3. on criteria are not met, as it does not contain subs ction 3.	
Causes irritation in respiratory passages, which is norr	nally reversible and limited to the upper respirator	y passages.
G- Specific target organ toxicity (STOT)-repeated exposu	re:	
 Specific target organ toxicity (STOT)-repeated expo it does not contain substances classified as dangerous Skin: Based on available data, the classification crit dangerous for this effect. For more information see se H- Aspiration hazard: 	for this effect. For more information see section 3 eria are not met, as it does not contain substances	3.
Based on available data, the classification criteria are i	not met, as it does not contain substances classifie	ed as dangerous fo
this effect. For more information see section 3.		j
Other information:		
Non-applicable		
Specific toxicology information on the substances:		
Identification	Acute toxicity	Genus
Acetaldehyde ammonia trimer	LD50 oral >2000 mg/kg	
CAS: 58052-80-5	LD50 dermal >2000 mg/kg	
EC: 676-562-1	LC50 inhalation Non-applicable	

12.1 Toxicity:

Not available

12.2 Persistence and degradability:

Not available

12.3 Bioaccumulative potential:

Not available

12.4 Mobility in soil:

Not available

- **12.5 Results of PBT and vPvB assessment:** Product fails to meet PBT/vPvB criteria
- 12.6 Other adverse effects:

Not described

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
16 03 05*	organic wastes containing hazardous substances	Dangerous

Type of waste (Regulation (EU) No 1357/2014):

HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP4 Irritant — skin irritation and eye damage

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2019 and RID 2019:

14.1	UN number:	Non-applicable	
14.2	UN proper shipping name: Non-applicable		
14.3	Transport hazard class(es):	Non-applicable	
	Labels:	Non-applicable	
14.4	Packing group:	Non-applicable	
14.5	Environmental hazards:	No	
14.6	Special precautions for user		
	Special regulations:	Non-applicable	
	Tunnel restriction code:	Non-applicable	
	Physico-Chemical properties:	see section 9	
	Limited quantities:	Non-applicable	
14.7	Transport in bulk according	Non-applicable	
	to Annex II of Marpol and		
_	the IBC Code:		
Transpo	rt of dangerous goods by sea:		
With rega	ard to IMDG 39-18:		
14.1	UN number:	Non-applicable	
14.2	UN proper shipping name:	Non-applicable	
14.3	Transport hazard class(es):	Non-applicable	
	Labels:	Non-applicable	
14.4	Packing group: Non-applicable		
14.5	Environmental hazards:	No	
14.6	Special precautions for user		
	Special regulations:	Non-applicable	
	EmS Codes:		
	Physico-Chemical properties:	see section 9	
	Limited quantities:	Non-applicable	
	Segregation group:	Non-applicable	
14.7		Non-applicable	
	to Annex II of Marpol and		
-	the IBC Code:		
-	rt of dangerous goods by air:		
With rega	ard to IATA/ICAO 2020:		

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SECTION 14: TRANSPORT INFORMATION (continued)			
UN number:	Non-applicable		
UN proper shipping name:	Non-applicable		
Transport hazard class(es):	Non-applicable		
Labels:	Non-applicable		
Packing group:	Non-applicable		
Environmental hazards:	No		
Special precautions for user			
Physico-Chemical properties:	see section 9		
Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable		
	RANSPORT INFORMATION (UN number: UN proper shipping name: Transport hazard class(es): Labels: Packing group: Environmental hazards: Special precautions for user Physico-Chemical properties: Transport in bulk according to Annex II of Marpol and	RANSPORT INFORMATION (continued)UN number: UN proper shipping name: Transport hazard class(es): Labels:Non-applicable Non-applicable	

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

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Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Seveso III:

Non-applicable

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):

Non-applicable

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION **

Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830).

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11):

New declared substances

Acetaldehyde ammonia trimer (58052-80-5)

CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):

- Pictograms
- Hazard statements

Precautionary statements

Texts of the legislative phrases mentioned in section 2:

H315: Causes skin irritation

H335: May cause respiratory irritation

H319: Causes serious eye irritation

** Changes with regards to the previous version

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SECTION 16: OTHER INFORM	ATION ** (continued)				
Texts of the legislative pl The phrases indicated do no individual components which CLP Regulation (EC) No 1 Eye Irrit. 2: H319 - Causes s	t refer to the product itself; t appear in section 3 . 272/2008:	ion 3: they are present merely for informative purposes and refer to the			
Skin Irrit. 2: H315 - Causes STOT SE 3: H335 - May cause	skin irritation				
Advice related to training Minimal training is recomment comprehension and interpret	Advice related to training: Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.				
http://echa.europa.eu http://eur-lex.europa.eu Abbreviations and acrony	http://eur-lex.europa.eu				
ADR: European agreement c IMDG: International maritim IATA: International Air Trans ICAO: International Civil Avia	oncerning the international o e dangerous goods code port Association ation Organisation	arriage of dangerous goods by road			
BCF: Bioconcentration factor LD50: Lethal Dose 50	BOD5: 5-day biochemical oxygen demand BCF: Bioconcentration factor LD50: Lethal Dose 50				
EC50: Effective concentration	LC50: Lethal Concentration 50 EC50: Effective concentration 50 Log-POW: Octanol-water partition coefficient Koc: Partition coefficient of organic carbon				

** Changes with regards to the previous version

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.