

SECTION 1. Identification of the substance/mixture and of the company/enterprise

1.1. Product identifier

Product name : RIS
Product code: refer to sales department

1.2. Relevant identified uses of the substance or mixture and uses advised against

Additive sequestering agents
Sectors of use:
Industrial Manufacturing[SU3], Manufacture of food products[SU4]
Product category:
Water treatment chemicals
Process categories:
Use in batch and other process (syn- thesis) where opportunity for exposure arises[PROC4], Transfer of substance or mixture (charging and discharging) at dedicated facilities[PROC8B]

Not recommended uses
Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

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SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:

GHS05

Hazard Class and Category Code(s):

Met. Corr. 1, Skin Corr. 1, Eye Dam. 1

Hazard statement Code(s):

H290 - May be corrosive to metals.

H314 - Causes severe skin burns and eye damage.

H318 - Causes serious eye damage.

The product can be corrosive to metals

Corrosive product: causes severe skin burns and eye damage.

If brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.

2.1.2 Additional information:

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):

GHS05 - Danger

Hazard statement Code(s):

H290 - May be corrosive to metals.



H314 - Causes severe skin burns and eye damage.

Supplemental Hazard statement Code(s):
not applicable

Precautionary statements:

Prevention

P260 - Do not breathe vapours/spray.

P280 - Wear protective gloves/clothing and eye/face protection

Response

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

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.

Contains:

Nitritotrimethylfosfonic acid

Contains (Reg.EC 648/2004):

> 30% phosphonates

2.3. Other hazards

Based on the available data, no PBT or vPvB substances are present in accordance with Regulation (EC) 1907/2006, annex XIII

Based on available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100

The use of this chemical agent implies the obligation of the "risk assessment" by the employer according to the provisions of Legislative Decree April 9, 2008 no. 81 and subsequent amendments. If the results of the risk assessment demonstrate that, in relation to the type, quantity, methods and frequency of exposure, there is only a low risk for the safety and irrelevant for the health of the workers and that the measures referred to in paragraph 1 of Legislative Decree April 9, 2008 no. 81 are sufficient to reduce the risk, the provisions of articles 225, 226, 229, 230 of the same Legislative Decree do not apply
Do not ingest. Keep out of reach of children.

SECTION 3. Composition/information on ingredients

3.1 Substances

Irrilevant

3.2 Mixtures

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACH
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Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACH
Nitilotrimethylfosfonic acid	>= 25 < 50%	Met. Corr. 1, H290; Eye Irrit. 2, H319 ATE oral = 2.100,000 mg/kg		6419-19-8	229-146-5	01-2119487 988-08-XXX X
Hydrogen pentasodium C, C', C' '-Nitilotris (methylphosphonate) - ionic mixture	>= 10 < 25%	Eye Irrit. 2, H319		2235-43-0	218-791-8	Ionic mixture

SECTION 4. First aid measures

4.1. Description of first aid measures

Inhalation:

Ventilate the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

Direct contact with skin (of the pure product):

Take off immediately contaminated clothing.
In case of contact with skin, wash immediately with water.
Immediately consult a physician.

Direct contact with eyes (of the pure product):

Wash immediately and thoroughly with running water, keeping eyelids open for at least 10 minutes, then protect your eyes with a dry sterile gauze. Seek medical advice immediately
Do not use eye drops or ointments of any kind before the examination or advice from an oculist.

Ingestion:

Rinse mouth immediately.
Absolutely do not induce vomiting or emesis. Seek medical advice immediately.

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

Ingestion may cause chemical burns in the mouth and throat.
Contact with skin may cause burns.
Contact with eyes causes severe irritation, including redness and tearing.

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

In case of contact with the pure product, go immediately to an emergency room and, if possible, show this safety data sheet.

Symptomatic treatment.
UFI code: see packaging

SECTION 5. Firefighting measures

5.1. Extinguishing media

Suggested extinguishing media:

Water spray, CO2, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing media to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for firefighters

Use protection for the breathing apparatus

Safety helmet and full protective clothing.

The water spray can be used to protect the people involved in the extinction.

You may also use self-contained breathing apparatus, especially when working in confined and poorly ventilated areas.

Keep containers cool with water spray

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Leave the area surrounding the spill or release. Do not smoke

Wear mask, gloves and protective clothing.

6.1.2 For emergency responders:

Eliminate all unguarded flames and possible sources of ignition. No smoking.

Provide a sufficient ventilation.

Evacuate the danger area and, in case, consult an expert.

6.2. Environmental precautions

Contain spills with earth or sand.

If the product has entered a watercourse, sewers or has contaminated soil or vegetation, notify the authorities.

Dispose of the waste material in compliance with the regulations

6.3. Methods and material for containment and cleaning up

6.3.1 Containment:

Rapidly recover the product, wear a mask and protective clothing (for specifications refer to section 8.2. SDS)

Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert material or suck it.

Prevent it from entering the sewer system.

6.3.2 Cleaning up:

After wiping up, wash with water the area and materials involved

6.3.3 Other information:

None in particular.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid contact and inhalation of vapors
Wear protective gloves/clothing and eye/face protection
Handle the product after consulting all other sections of this safety data sheet.
At work do not eat or drink.
See also paragraph 8 below.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabelled containers.
Keep containers upright and safe by avoiding the possibility of falls or collisions.
Store in a cool and dry place, away from heat sources and direct exposure to sunlight.

7.3. Specific end use(s)

Industrial Manufacturing:

Handle with caution. Store in a well-ventilated place away from heat sources (7-30°C), in the tightly closed original container

Manufacture of food products:

Handle with caution. Store in a well-ventilated place away from heat sources (7-30°C), in the tightly closed original container

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

- Substance: Nitrilotrimethylfosfonic acid

DNEL

Systemic effects Long term Workers inhalation = 9,7 (mg/m³)
Systemic effects Long term Workers dermal = 2,75 (mg/kg bw/day)
Systemic effects Long term Consumers inhalation = 1,38 (mg/m³)
Systemic effects Long term Consumers dermal = 2,39 (mg/kg bw/day)
Systemic effects Long term Consumers oral = 1,38 (mg/kg bw/day)
Systemic effects Short term Workers inhalation = 9,7 (mg/m³)
Systemic effects Short term Workers dermal = 2,75 (mg/kg bw/day)
Systemic effects Short term Consumers inhalation = 1,38 (mg/m³)
Systemic effects Short term Consumers dermal = 2,39 (mg/kg bw/day)
Systemic effects Short term Consumers oral = 1,38 (mg/kg bw/day)

PNEC

Sweet water = 0,46 (mg/l)
sediment Sweet water = 690 (mg/kg/sediment)
Sea water = 0,046 (mg/l)
sediment Sea water = 69 (mg/kg/sediment)
ground = 277 (mg/kg ground)

8.2. Exposure controls

Appropriate engineering controls:

Industrial Manufacturing:

No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

Manufacture of food products:

No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

8.2.2 Individual protection measures:

(a) Eye / face protection

Not needed for normal use.

When handling the pure product, use safety glasses (EN 166).

(b) Skin protection

(i) Hand protection

When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3)

(ii) Other

During working operation wear protective clothing (generic workwear / antacid, safety shoes or other protective equipment) according to the instructions of the employer

(c) Respiratory protection

Not needed for normal use, if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information.

Use certified respiratory protection equipment meeting EU requirements (89/656/EEC, 245/2016 UE), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

(d) Thermal hazards

No hazard to report

Environmental exposure controls:

Use according to good working practices and avoid to disperse the product into the environment.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Physical state	Clear liquid	
Colour	colorless	
Odour	Not determined because it is considered not relevant for characterization of the product	
Odour threshold	Not determined because it is considered not relevant for characterization of the product	

In conformity to Regulation (EU) 2020/878

Physical and chemical properties	Value	Determination method
Melting point/freezing point	Not determined because it is considered not relevant for characterization of the product	
Boiling point or initial boiling point and boiling range	Not determined because it is considered not relevant for characterization of the product	
Flammability	Not determined because it is considered not relevant for characterization of the product	
Lower and upper explosion limit	Not determined because it is considered not relevant for characterization of the product	
Flash point	Not determined because it is considered not relevant for characterization of the product	
Auto-ignition temperature	Not determined because it is considered not relevant for characterization of the product	
Decomposition temperature	Not determined because it is considered not relevant for characterization of the product	
pH	<2,0 (20°C; 100%); 7,0 ± 0,5 (20°C; sol.0,005%)	
Kinematic viscosity	Not determined because it is considered not relevant for characterization of the product	
Solubility	in water	
Water solubility	Miscible in all proportions	
Partition coefficient n-octanol/water (log value)	Not determined because it is considered not relevant for characterization of the product	
Vapour pressure	Not determined because it is considered not relevant for characterization of the product	
Density and/or relative density	1,15 ± 0,05 (20°C)	
Relative vapour density	Not determined because it is considered not relevant for characterization of the product	
Particle characteristics	not determined as considered not relevant for the characterization of the product	

9.2. Other information

9.2.1 Information with regard to physical hazard classes

Irrilevant

9.2.2 Other safety characteristics

Irrilevant

SECTION 10. Stability and reactivity

10.1. Reactivity

Acid

10.2. Chemical stability

Stable at room temperature and under normal conditions of use

10.3. Possibility of hazardous reactions

It can react with reducing agents, strong bases, organic materials and chlorides. The reaction with the most common metals can liberate oxygen.

10.4. Conditions to avoid

Direct heat sources and the provisions of 10.3

10.5. Incompatible materials

Alkaline substances

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11. Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

- (a) acute toxicity: based on available data, the classification criteria are not met
ATE(mix) oral = Not classified (no relevant component)
ATE(mix) dermal = Not classified (no relevant component)
ATE(mix) inhal = Not classified (no relevant component)
- (b) skin corrosion/irritation: based on available data, the classification criteria are met
- (c) serious eye damage/irritation: b If brought into contact with the eyes, the product causes serious eye injuries, such as opacification of the cornea or injury to the iris.
- (d) respiratory or skin sensitisation: based on available data, the classification criteria are not met
- (e) germ cell mutagenicity: based on the available data, the classification criteria are not met.
- (f) carcinogenicity: based on available data, the classification criteria are not met
- (g) reproductive toxicity: based on available data, the classification criteria are not met
- (h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met
- (i) specific target organ toxicity (STOT) repeated exposure: based on available data, the classification criteria are not met
- (j) aspiration hazard: based on available data, the classification criteria are not met

concerning substances

(a) acute toxicity:

Nitrilotrimethylfosfonic acid: Ingestion - LD50 installment: 2100 mg/kg; Contact with skin - LC50 installment/rabbit: n.a
Inhalation - LD50 rat (mg/l/4h): n.a.
Hydrogen pentasodium C, C', C'-Nitrilotris (methylphosphonate) - ionic mixture: Ingestion-rat LD50 (mg/kg/bw 24h): 17800;
Skin contact-LC50 rat/coniglio (mg/kg/bw 24h): > 15800; Inhalation-rat LD50 (mg/l/4h): n.a.

(b) skin corrosion/irritation:

Nitrilotrimethylfosfonic acid: Based on available data, the classification criteria are not met.
Hydrogen pentasodium C, C', C'-Nitrilotris (methylphosphonate) - ionic mixture: Non-corrosive
Nitrilotrimethylfosfonic acid: Not Irritating
Hydrogen pentasodium C, C', C'-Nitrilotris (methylphosphonate) - ionic mixture: Non-irritating

(c) serious eye damage/irritation:

Nitrilotrimethylfosfonic acid: Based on available data, the classification criteria are not met.
Hydrogen pentasodium C, C', C'-Nitrilotris (methylphosphonate) - ionic mixture: Non-corrosive
Nitrilotrimethylfosfonic acid: Irritating
Hydrogen pentasodium C, C', C'-Nitrilotris (methylphosphonate) - ionic mixture: Irritating

(d) respiratory or skin sensitisation:

Nitrilotrimethylfosfonic acid: Based on available data, the classification criteria are not met.
Hydrogen pentasodium C, C', C'-Nitrilotris (methylphosphonate) - ionic mixture: Non-sensitizing

(e) germ cell mutagenicity:

Nitrilotrimethylfosfonic acid: Based on available data, the classification criteria are not met.
Hydrogen pentasodium C, C', C'-Nitrilotris (methylphosphonate) - ionic mixture: Not available

(f) carcinogenicity:

Nitrilotrimethylfosfonic acid: Based on available data, the classification criteria are not met.
Hydrogen pentasodium C, C', C'-Nitrilotris (methylphosphonate) - ionic mixture: Not available

(g) reproductive toxicity:

Nitrilotrimethylfosfonic acid: Based on available data, the classification criteria are not met.
Hydrogen pentasodium C, C', C'-Nitrilotris (methylphosphonate) - ionic mixture: Not available

(h) specific target organ toxicity (STOT) single exposure:

Nitrilotrimethylfosfonic acid: Based on available data, the classification criteria are not met
Hydrogen pentasodium C, C', C'-Nitrilotris (methylphosphonate) - ionic mixture: Not available

(i) specific target organ toxicity (STOT) repeated exposure

Nitrilotrimethylfosfonic acid: Based on available data, the classification criteria are not met.
Hydrogen pentasodium C, C', C'-Nitrilotris (methylphosphonate) - ionic mixture: Not available

(j) aspiration hazard:

Nitrilotrimethylfosfonic acid: Based on available data, the classification criteria are not met.
Hydrogen pentasodium C, C', C'-Nitrilotris (methylphosphonate) - ionic mixture: Not available

11.2. Information on other hazards

No data available.

11.2.1. Endocrine disrupting properties

Based on available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100

SECTION 12. Ecological information

12.1. Toxicity

Related to contained substances:

Nitilotrimethylfosfonic acid:

Acute toxicity - fish LC50 (mg/l/336h): 150 (Salmo gairdneri)

Acute toxicity - crustaceans EC50 (mg/l/48h): 297 (Daphnia Magna)

Acute toxicity algae ErC50 (mg/l/72-96h): nd

Chronic toxicity - fish NOEC (mg/l): 23 (Oncorhynchus mykiss)

Chronic toxicity - crustaceans NOEC (mg/l): 23 (Daphnia Magna)

Chronic toxicity algae NOEC (mg/l): nd

Toxicity of microorganisms nd

Hydrogen pentasodium C, C', C''-Nitilotris (methylphosphonate) - ionic mixture:

Not available

Acute toxicity M-factor = 1

Chronic toxicity M-factor = 1

Use according to good working practices and avoid to disperse the product into the environment.

12.2. Persistence and degradability

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Related to contained substances:

Nitilotrimethylfosfonic acid:

Not rapidly biodegradable

Hydrogen pentasodium C, C', C''-Nitilotris (methylphosphonate) - ionic mixture:

Not available

12.3. Bioaccumulative potential

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Related to contained substances:

Nitilotrimethylfosfonic acid:

Not available

Hydrogen pentasodium C, C', C''-Nitilotris (methylphosphonate) - ionic mixture:

Not available

12.4. Mobility in soil

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Related to contained substances:

Nitilotrimethylfosfonic acid:

Not available

Hydrogen pentasodium C, C', C''-Nitilotris (methylphosphonate) - ionic mixture:

Not available

12.5. Results of PBT and vPvB assessment

Based on the available data, no PBT or vPvB substances are present in accordance with Regulation (EC) 1907/2006, annex XIII

12.6. Endocrine disrupting properties

Based on available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100

12.7. Other adverse effects

No adverse effects

Regulation (EC) No 2006/907 - 2004/648

The (l) surfactant (s) content (s) in this preparation complies (comply) with (i) the biodegradability criteria as laid down in Regulation CE/648/2004 on detergents. All data are held at the disposal of the competent authorities of Member States and will be provided, at their direct request or at the request of a detergent manufacturer, to those authorities.

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.

Recover if possible. Operate according to local or national regulations

SECTION 14. Transport information

14.1. UN number or ID number

ADR/RID/IMDG/ICAO-IATA: 3265



If subject to the following characteristics is ADR exempt:

Combination packagings: per inner packaging 5 L per package 30 kg

Inner packaging placed in skrink-wrapped or stretch-wrapped trays: per inner packaging 5 L per package 20 kg

14.2. UN proper shipping name

ADR/RID/IMDG: LIQUIDO ORGANICO CORROSIVO, ACIDO, N.A.S. (Nitrilotrimethylfosfonic acid)

ADR/RID/IMDG: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Nitrilotrimethylfosfonic acid)

ICAO-IATA: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Nitrilotrimethylfosfonic acid)

14.3. Transport hazard class(es)

ADR/RID/IMDG/ICAO-IATA: Class : 8

ADR/RID/IMDG/ICAO-IATA: Label : 8

ADR: Tunnel restriction code : E

ADR/RID/IMDG/ICAO-IATA: Limited quantities : 5 L

IMDG - EmS : F-A, S-B

14.4. Packing group

ADR/RID/IMDG/ICAO-IATA: III

14.5. Environmental hazards

ADR/RID/ICAO-IATA: Product is not environmentally hazardous
IMDG: Marine polluting agent : No

14.6. Special precautions for user

The transport must be carried out by authorized vehicles for the transport of dangerous goods in accordance with the requirements of the applicable Edition of the agreement A.D.R. and national provisions. The transport must be carried out in the original packaging and in packages that are made from materials resistant to content and not likely to generate with this dangerous reactions. The process of loading and unloading of dangerous goods have received adequate training on the risks presented by prepared and on possible procedures to be taken in the event of emergency situations

14.7. Maritime transport in bulk according to IMO instruments

Transport in bulk is not foreseen

SECTION 15. Regulatory information

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

Restrictions relating to the product or the substances contained (Annex XVII EC Reg. 1907/2006): not applicable
Substances in Candidate list (art. 59 EC Reg. 1907/2006): the product does not contain SVHC in percentage = a 0.1 %.

Regulation (EC) 648/04: see point 2.2
Regulation (EU) 528/2012: see point 2.2

REGULATION (EU) No 1357/2014 - waste: HP8 - Corrosive
Seveso III class (Dir EU 2012/18): n.a.

15.2. Chemical safety assessment

Chemical safety assessment was carried out;
Nitrilotrimethylfosfonic acid

SECTION 16. Other information

16.1. Other information

Points modified compared to previous release: 3.2 Mixtures, 4.2. Most important symptoms and effects, both acute and delayed, 4.3. Indication of any immediate medical attention and special treatment needed, 7.1. Precautions for safe handling, 7.3. Specific end use(s), 8.2. Exposure controls, 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008, 11.2. Information on other hazards, 12.1. Toxicity, 12.2. Persistence and degradability, 12.3.

Bioaccumulative potential, 12.4. Mobility in soil, 12.5. Results of PBT and vPvB assessment, 12.6. Endocrine disrupting properties 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Description of hazard statements set out in paragraph 3

H290 = May be corrosive to metals.

H319 = Causes serious eye irritation.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008

[CLP]:

H290 - May be corrosive to metals. Classification procedure: On basis of test data

H314 - Causes severe skin burns and eye damage. Classification procedure: Calculation method

H318 - Causes serious eye damage. Classification procedure: Calculation method

Main normative references:

Reg. (CE) n. 1907 del 18/12/06 REACH (Registration, Evaluation and Authorisation of CHemicals) et seq.

Reg. (CE) 1272/2008 CLP (Classification Labelling and Packaging) et seq.

Directive 2012/18/EU (on the control of major-accident hazards involving dangerous substances) et seq.

Training required: This document must be submitted to the employer to determine the possible need for appropriate training for workers to ensure protection of human health and the environment.

n.a.: not applicable

n.d.: not available

ADR: Accord européen relative au transport International des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

ATE: Acute Toxicity Estimati

BFC: BioconCentration Factor

BOD: Biochemical Oxigen Demand

CAS: Chemical Abstract Service number

CAP: Centre AntiPoison

CE/EC number EINECS (European Inventory of existing Commercial Substances) e ELINCS (European List of notified Chemical Substances)

CL50/LC50: Lethal Concentration 50

DL50/LD50: Lethal Dose 50

COD: Chemical Oxygen Demand

DNEL: Derived No Effect Level

EC50: half maximal Effective Concentration

ERC: Enviroment Release Classes

EU/UE: European Union

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods code

Kow: Octanol water partition coefficient

NOEC: No Observed Effect Concentration

OEL: Occupational Exposure Limit

PBT: Persistent Bioaccumulative and Toxic

PC: Product Categories

PNEC: Predicted No Effect Concentration

PROC: Process Categories

RID: Règlement concernant le transport International ferroviaire des marchandises dangereuses (Regulations concerning International rail transport of dangerous goods)

STOT: Target Organ Systemic Toxicity

STOT (RE): Repeated Exposure

STOT (SE): Single Exposure

STP: Sewage Treatment Plants

SU: Sector of Use

SVCH: Substance of Very High Concern

TLV: Threshold Limit Value

vPvB: Very Persistent Very Bioaccumulative

References and Sources:

- ECHA Registered Substances:
<https://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>
- SDS raw material supplier
- GESTIS International Limit Value: <http://limitvalue.ifa.dguv.de>

This msds was made in good faith by technical Office on the basis of the information available at the date of the last revision. The person in charge must regularly inform the employees about the specific risks they encounter when using this substance/product. The information contained here relate only to the substance/the preparation indicated and may not apply if the product is used improperly or in combination with others. Nothing contained herein shall be construed as a guarantee, either express or implied. It is the responsibility of the user to ensure the opportunities and completeness of the information contained herein for their own particular use.

*** this tab annuls and replaces any previous edition. (IIXX)

Changes to the previous edition: updating data of raw materials

SUMI**Safe Use of Mixtures Information****AISE_SUMI_IS_4_2***Version 1.1, August 2018****Industrial uses; Automated task; Semi-automated task; Dedicated equipment***

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.


General description of the process covered

The SUMI applies to industrial uses where products are used in closed process where opportunity for exposure arises. This Safe Use Information is based on the **AISE_SWED_IS_4_2**.

Operational Conditions

Maximum duration	480 minutes per day.
Range of application / Process conditions	Indoor Use. Process carried out at room temperature. In case of dilution, tap water at a maximum temperature of 45°C is used.
Air exchange rate	Provide a basic standard of general ventilation (1 to 3 air changes per hour). No LEV required.

Risk Management Measures

Measures related to personal protective equipment (PPE), hygiene and health evaluation	Wear suitable gloves. See section 8 of the SDS of this product for specifications. 
	Training of workers in relation to proper use and maintenance of PPEs must be ensured.
Environmental measures	Prevent that undiluted product reaches surface waters. If appropriate AISE SPERC 8a.1.a.v2 may apply: wide dispersive use resulting in release to municipal sewage treatment plant.

Additional good practice advice

<p>Don't eat or drink. Don't smoke. Don't use in proximity of open flame.</p>	
<p>Wash hands after use. Avoid contact with damaged skin. Do not mix with other products.</p>	
<p>Spillage instructions</p>	<p>Dilute with fresh water and mop up.</p>
<p>Hygiene practices</p>	<p>Follow the product instructions as specified on the label or in the product information sheet and use good occupational hygiene practices as specified in Section 7 of the product SDS.</p>

Additional information depending on product composition

The label and (when required) the Safety Data Sheet contain additional, product specific information crucial for working safely with mixtures. Please refer to the product label and SDS for information including, but not limited to: product hazard classification, potentially allergenic fragrances, notable ingredients and threshold limit values (when available).

Disclaimer

This is a document for communicating generic conditions of safe use of a product. It is the responsibility of the formulator to link this SUMI to the SDS of a specific product that he is selling.

If a SUMI (or associated SWED) code is mentioned in the SDS of a product, the formulator of that product declares that all substances in the mixture are present in such concentration, that the use of the product within the conditions of the SUMI is safe. When available, this safe use is ensured by evaluating the results of the chemical safety assessments as performed by the raw material suppliers. When no chemical safety assessment has been carried out by the supplier for an ingredient that contributes to the classification of the mixture, the formulator has performed a safety assessment himself.

Following Occupational Health legislation, the employer of workers that use products that are assessed as safe following SUMI conditions remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, SUMI Sheets should always be considered in combination with the SDS and the label of the product.

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SUMI**Safe Use of Mixtures Information****AISE_SUMI_IS_8b_1***Version 1.1, August 2018****Transfer and dilution of concentrated product by using dedicated dosing system***

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.


General description of the process covered

This SUMI applies to industrial uses where products are transferred to or diluted in a dedicated dosing system. This Safe Use Information is based on the **AISE_SWED_IS_8b_1_L** and **AISE_SWED_IS_8b_1_S**

Operational Conditions

Maximum duration	60 minutes per day.
Range of application / Process conditions	Indoor Use.
	Process carried out at room temperature.
	In case of dilution, tap water at a maximum temperature of 45°C is used.
Air exchange rate	Provide a basic standard of general ventilation (1 to 3 air changes per hour). No LEV required.

Risk Management Measures

Measures related to personal protective equipment (PPE), hygiene and health evaluation	Wear suitable gloves. See section 8 of the SDS of this product for specifications.
	 Training of workers in relation to proper use and maintenance of PPEs must be ensured.
Environmental measures	Prevent that undiluted product reaches surface waters.
	If appropriate AISE SPERC 8a.1.a.v2 may apply: wide dispersive use resulting in release to municipal sewage treatment plant.

Additional good practice advice

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<p>Spillage instructions</p>	<p>Dilute with fresh water and mop up.</p>
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Additional information depending on product composition

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