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SECTION 1: Identification of the substance/mixture and of the company/ undertaking

· ***1.1 Product identifier***

· ***Trade name:*** **Aluoxyd Plus**

· ***UFI:*** GC00-60K6-000F-GC36

· ***1.2 Relevant identified uses of the substance or mixture and uses advised against***
No further relevant information available.
· ***Application of the substance / the mixture*** Oxidising agent for aluminium surfaces

· ***1.3 Details of the supplier of the safety data sheet***
· ***Manufacturer/Supplier:***
Innograv GmbH
Leinenkamp 9
27299 Langwedel
Germany
Telefon: +49 (0) 4232/94 58-0
Telefax: +49 (0) 4232/94 58-58
E-Mail: info@innograv.com
Webseite: www.innograv.com

· ***Informing department:*** Phone: +49 (0) 4232 / 94 58 0

· ***1.4 Emergency telephone number:***
Gift-Informationszentrum Nord, Göttingen
Poison Information Center, Göttingen
Tel.: +49 (0)551 19240
(German and English only)

SECTION 2: Hazards identification

· ***2.1 Classification of the substance or mixture***
· ***Classification according to Regulation (EC) No 1272/2008***


GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.


GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.


GHS07

Acute Tox. 4 H302 Harmful if swallowed.

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· ***2.2 Label elements***
· ***Labelling according to Regulation (EC) No 1272/2008***
The product is classified and labelled according to the CLP regulation.
· ***Hazard pictograms***

GHS05 GHS07 GHS09

· ***Signal word*** Danger

· ***Hazard-determining components of labelling:***
sodium fluoride
zinc sulphate
selenious acid
copper sulphate pentahydrate
ammonium molybdate(VI)
· ***Hazard statements***
H302 Harmful if swallowed.
H318 Causes serious eye damage.
H410 Very toxic to aquatic life with long lasting effects.
· ***Precautionary statements***

P102	Keep out of reach of children.
P273	Avoid release to the environment.
P280	Wear eye protection / face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P391	Collect spillage.
P501	Dispose of contents/container in accordance with local regulations.

· ***Additional information:***
Packaging of whatever capacity that is delivered to the general public shall be fitted with a tactile warning of danger according to EN ISO 11683.
EUH032 Contact with acids liberates very toxic gas.
· ***2.3 Other hazards***
· ***Results of PBT and vPvB assessment***
· ***PBT:*** Not applicable
· ***vPvB:*** Not applicable
· ***Determination of endocrine-disrupting properties***
The product contains substances suspected of having endocrine disrupting properties (List II and List III).

CAS: 7681-49-4	sodium fluoride	List II

SECTION 3: Composition/information on ingredients

· ***3.2 Mixtures***
· ***Description:*** Aqueous solution of substances listed below with additional ingredients not requiring labelling.

· ***Dangerous components:***

CAS: 7681-49-4 EINECS: 231-667-8 Index number: 009-004-00-7 Reg.nr.: 01-2119539420-47-X	sodium fluoride Acute Tox. 3, H301; Acute Tox. 3, H331; STOT RE 2, H373; Skin Irrit. 2, H315; Eye Irrit. 2, H319, EUH032	≥ 0 - < 10%

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CAS: 7733-02-0 EINECS: 231-793-3 Index number: 030-006-00-9 Reg.nr.: 01-2119474684-27-X	zinc sulphate Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302	≥ 2.5 - < 3%
CAS: 7758-99-8 EINECS: 231-847-6 Index number: 029-023-00-4	copper sulphate pentahydrate Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); Acute Tox. 4, H302 ATE: LD50 oral: 481 mg/kg	≥ 2.5 - < 3%
CAS: 7783-00-8 EINECS: 231-974-7 Index number: 034-002-00-8 Reg.nr.: 01-2119548405-38-X	selenious acid Acute Tox. 3, H301; Acute Tox. 3, H331; STOT RE 2, H373; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≥ 2.5 - < 10%
CAS: 13106-76-8 EINECS: 236-031-3	ammonium molybdate(VI) Acute Tox. 4, H302	0 - 10%

· ***Additional information*** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· ***4.1 Description of first aid measures***
· ***General information*** Instantly remove any clothing contaminated by the product.
· ***After inhalation*** Supply fresh air; consult doctor in case of symptoms.
· ***After skin contact***
Instantly wash with water and soap and rinse thoroughly.
Remove contaminated clothing immediately.
Wash contaminated clothing before re-use.
· ***After eye contact***
Rinse opened eye for several minutes under running water. Then consult doctor.
Remove contact lenses if possible.
Use eye protection.
· ***After swallowing*** Rinse mouth and immediately consult physician.
· ***Information for doctor*** Point out to ingredients (see section 3).
· ***4.2 Most important symptoms and effects, both acute and delayed***
No further relevant information available.
· ***4.3 Indication of any immediate medical attention and special treatment needed***
No further relevant information available.

SECTION 5: Firefighting measures

· ***5.1 Extinguishing media***
· ***Suitable extinguishing agents***
The product itself does not burn.
Use fire fighting measures that suit the environment.
· ***For safety reasons unsuitable extinguishing agents*** None known.
· ***5.2 Special hazards arising from the substance or mixture***
Inhalation of combustion gases may cause serious health hazards.
Can be released in case of fire:
Copper compounds
Selenium compounds
Fluorides
· ***5.3 Advice for firefighters***
· ***Protective equipment:*** Wear self-contained breathing apparatus.

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· ***Additional information***
Collect contaminated fire fighting water separately. It must not enter drains. Provide sufficient fire fighting water retention.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

· ***6.1 Personal precautions, protective equipment and emergency procedures*** Not required
· ***For non-emergency personnel***
Avoid contact with the product.
Ensure adequate ventilation
· ***For emergency responders*** Wear protective equipment. Keep unprotected persons away.
· ***6.2 Environmental precautions:*** Avoid release to the environment.
· ***6.3 Methods and material for containment and cleaning up:***
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
Dispose of the material collected according to regulations.
Complete cleaning with water.
· ***6.4 Reference to other sections***
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

SECTION 7: Handling and storage

· ***7.1 Precautions for safe handling***
Ensure good ventilation/exhaustion at the workplace.
Open and handle container with care.
Prevent formation of aerosols.
· ***Information about protection against explosions and fires:*** Keep breathing equipment ready.

· ***Handling***
Do not eat, drink or smoke while working.
Avoid close or long term contact with the skin.
Avoid contact with the eyes.
Wash thoroughly after handling.
Take off all contaminated clothing immediately.
Do not inhale gases / fumes / aerosols.
Wash contaminated clothing before re-use.

· ***7.2 Conditions for safe storage, including any incompatibilities***
· ***Storage***
· ***Requirements to be met by storerooms and containers:***
Storage according to local standards.
Keep container tightly closed and store upright to prevent any spill of product.
· ***Information about storage in one common storage facility:***
Keep away from food, drink and animal feeding stuffs.
Do not store together with acids.
· ***Further information about storage conditions:***
Protect from frost.
Protect from direct sunlight.
· ***7.3 Specific end use(s)*** No further relevant information available.

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SECTION 8: Exposure controls/personal protection

· ***8.1 Control parameters***

· ***Components with limit values that require monitoring at the workplace:***
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· ***DNELs***		
CAS: 7681-49-4 sodium fluoride		
Dermal	DNEL (worker, short-term, systemic)	0.36 mg/kg bw/day (human)
	DNEL (worker, long-term, systemic)	0.36 mg/kg bw/day (human)
Inhalative	DNEL (worker, short-term, systemic)	2.5 mg/m³ (human)
	DNEL (worker, long-term, local)	2.5 mg/m³ (human)
CAS: 7758-99-8 copper sulphate pentahydrate		
Oral	DNEL (consumer, short-term, systemic)	0.082 mg/kg bw/day (human)
	DNEL (consumer, long-term, systemic)	0.041 mg/kg bw/day (human)
Dermal	DNEL (worker, long-term, systemic)	137 mg/kg bw/day (human)
Inhalative	DNEL (worker, long-term, systemic)	1 mg/m³ (human)
	DNEL (worker, long-term, local)	1 mg/m³ (human)

· ***PNECs***	
CAS: 7681-49-4 sodium fluoride	
PNEC aqua (fresh water)	0.9 mg/L (.)
PNEC STP - Sewage Treatment Plant	51 mg/L (.)
PNEC soil	11 mg/kg soil dw (.)
CAS: 7733-02-0 zinc sulphate	
PNEC aqua (fresh water)	0.0356 mg/L (.)
PNEC Water (marine water)	0.0178 mg/L (.)
PNEC STP - Sewage Treatment Plant	0.2469 mg/L (.)
PNEC soil	205.2 mg/kg soil dw (.)
PNEC sediment (fresh water)	362.7 mg/kg sedim. dw (.)
PNEC sediment (marine water)	400.5 mg/kg sedim. dw (.)
CAS: 7758-99-8 copper sulphate pentahydrate	
PNEC aqua (fresh water)	0.0078 mg/L
PNEC Water (marine water)	0.0052 mg/L
PNEC STP - Sewage Treatment Plant	0.23 mg/L
PNEC soil	65 mg/kg soil dw
PNEC sediment (fresh water)	87 mg/kg sedim. dw
PNEC sediment (marine water)	676 mg/kg sedim. dw

· ***Additional information:*** The lists that were valid during the compilation were used as basis.

· ***8.2 Exposure controls***

· ***Individual protection measures, such as personal protective equipment***

· ***General protective and hygienic measures***
Take off all contaminated clothing immediately.
Wash hands during breaks and at the end of the work.
Store protective clothing separately.

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· ***Breathing equipment:***
Not required when used as intended.
Use respiratory protection in case of aerosol or mist formation.
Filter P2.
In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.
· ***Hand protection***

Protective gloves.

Only use chemical-protective gloves with CE-labelling of category III (EN 374).
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· ***Material of gloves***
Nitrile rubber, NBR
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· ***Penetration time of glove material***
In case of a layer thickness of 0.33 mm the penetration time is longer than 480 minutes.
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
· ***Eye/face protection***

Safety glasses

SECTION 9: Physical and chemical properties

· ***9.1 Information on basic physical and chemical properties***	
· ***General Information***	
· ***Physical state***	Liquid
· ***Colour:***	Blue
· ***Odour:***	odourless
· ***Odour threshold:***	Not determined
· ***Melting point/freezing point:***	< 0 °C
· ***Boiling point or initial boiling point and boiling range***	> 100 °C
· ***Flammability***	Not applicable
· ***Lower and upper explosion limit***	
· ***Lower:***	Not determined
· ***Upper:***	Not determined
· ***Flash point:***	Not applicable
· ***Auto-ignition temperature:***	Product is not selfigniting.
· ***Decomposition temperature:***	Not determined

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· ***SADT***	
· ***pH at 20 °C***	> 2.2
· ***Viscosity:***	
· ***Kinematic viscosity***	Not determined
· ***dynamic:***	Not determined
· ***Solubility***	
· ***Water:***	Fully miscible
· ***Partition coefficient n-octanol/water (log value)***	Not determined
· ***Vapour pressure:***	Not determined
· ***Density and/or relative density***	
· ***Density at 20 °C***	1.051 g/cm³
· ***Relative density***	Not determined
· ***Vapour density***	Not determined
· ***9.2 Other information***	
· ***Appearance:***	
· ***Form:***	Fluid
· ***Important information on protection of health and environment, and on safety.***	
· ***Self-inflammability:***	Product is not selfigniting.
· ***Explosive properties:***	Product is not explosive.
· ***VOC EU***	
· ***Water:***	80 - 100 %
· ***Solids content:***	3 - 15 %
· ***Change in condition***	
· ***Evaporation rate***	Not determined
· ***Information with regard to physical hazard classes***	
· ***Explosives***	Void
· ***Flammable gases***	Void
· ***Aerosols***	Void
· ***Oxidising gases***	Void
· ***Gases under pressure***	Void
· ***Flammable liquids***	Void
· ***Flammable solids***	Void
· ***Self-reactive substances and mixtures***	Void
· ***Pyrophoric liquids***	Void
· ***Pyrophoric solids***	Void
· ***Self-heating substances and mixtures***	Void
· ***Substances and mixtures, which emit flammable gases in contact with water***	Void
· ***Oxidising liquids***	Void
· ***Oxidising solids***	Void
· ***Organic peroxides***	Void
· ***Corrosive to metals***	No statement can be made on this point due to a lack of studies on the product.
· ***Desensitised explosives***	Void

SECTION 10: Stability and reactivity

· ***10.1 Reactivity*** No further relevant information available.

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· ***10.2 Chemical stability***
· ***Information on the shelf life*** The product is stable.
· ***Thermal decomposition / conditions to be avoided:*** No decomposition if used according to specifications.
· ***10.3 Possibility of hazardous reactions*** Contact with acids releases toxic gases
· ***10.4 Conditions to avoid*** No further relevant information available.
· ***10.5 Incompatible materials:*** acid
· ***10.6 Hazardous decomposition products:***
None in case of intended use and storage in compliance with instructions.

SECTION 11: Toxicological information

· ***11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008***
· ***Acute toxicity*** Harmful if swallowed.

· ***LD/LC50 values that are relevant for classification:***		
ATE (Acute Toxicity Estimates)		
Oral	LD50	674 - 3,372 mg/kg
Inhalative	LC50	17.1 - 85.7 ppmV/4h

CAS: 7681-49-4 sodium fluoride		
Oral	LD50	97.7 mg/kg (Rat)
CAS: 7733-02-0 zinc sulphate		
Oral	LD50	926 mg/kg (mouse) (OECD 401)
Dermal	LD50	> 2,000 mg/kg (Rat) (OECD 402)
CAS: 7758-99-8 copper sulphate pentahydrate		
Oral	LD50	481 mg/kg (ATE)
CAS: 7783-00-8 selenious acid		
Oral	LD50	23.3 mg/kg (mouse) 68.1 mg/kg (Rat)
CAS: 13106-76-8 ammonium molybdate(VI)		
Oral	LD50	333 mg/kg (Rat)

· ***Primary irritant effect:***
· ***Skin corrosion/irritation*** Based on available data, the classification criteria are not met.
· ***Serious eye damage/irritation*** Causes serious eye damage.
· ***Respiratory or skin sensitisation*** Based on available data, the classification criteria are not met.
· ***Germ cell mutagenicity*** Based on available data, the classification criteria are not met.
· ***Carcinogenicity*** Based on available data, the classification criteria are not met.
· ***Reproductive toxicity*** Based on available data, the classification criteria are not met.
· ***STOT-single exposure*** Based on available data, the classification criteria are not met.
· ***STOT-repeated exposure*** Based on available data, the classification criteria are not met.
· ***Aspiration hazard*** Based on available data, the classification criteria are not met.
· ***11.2 Information on other hazards***

· ***Endocrine disrupting properties***		
CAS: 7681-49-4	sodium fluoride	List II

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SECTION 12: Ecological information

· ***12.1 Toxicity***

· ***Aquatic toxicity:***	
CAS: 7681-49-4 sodium fluoride	
EC50 (static)	97 mg/l/48h (Daphnia magna)
LC50 (static)	51 mg/l/96h (Oncorhynchus mykiss)
CAS: 7733-02-0 zinc sulphate	
LC50	0.727 mg/l/96h (Oncorhynchus kisutch)
NOEC	0.024 mg/l/72h (Raphidocelis subcapitata) (OECD 201)
CAS: 7783-00-8 selenious acid	
EC50	1.12 mg/l/48h (Daphnia magna) (OECD 202)
LC50 (dynamic)	5.19 mg/l/96h (Pimephales promelas) (EPA OPP 72-1)
EC50	15.7 mg/l/72h (Selenastrum capricornutum) (OECD 201)

· ***12.2 Persistence and degradability***
Anorganic product, is not eliminable from water by means of biological cleaning processes.
· ***Other information:*** There are no data available about the preparation.
· ***12.3 Bioaccumulative potential*** No further relevant information available.
· ***12.4 Mobility in soil*** No further relevant information available.
· ***12.5 Results of PBT and vPvB assessment***
· ***PBT:*** Not applicable
· ***vPvB:*** Not applicable
· ***12.6 Endocrine disrupting properties*** For information on endocrine disrupting properties see section 11.
· ***12.7 Other adverse effects***

· ***Behaviour in sewage processing plants:***	
CAS: 7733-02-0 zinc sulphate	
EC50	5.2 mg/l/3h (activated sludge) (OECD 209)

· ***Additional ecological information:***
· ***General notes:***
Water danger class 3 (German Regulation) (Self-assessment): extremely hazardous for water.
Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into soil.

SECTION 13: Disposal considerations

· ***13.1 Waste treatment methods***
· ***Recommendation***
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
The waste code numbers mentioned are recommendations based on the probable use of the product.

· ***European waste catalogue***	
06 00 00	WASTES FROM INORGANIC CHEMICAL PROCESSES
06 01 00	wastes from the manufacture, formulation, supply and use (MFSU) of acids
06 01 06*	other acids
HP6	Acute Toxicity
HP12	Release of an acute toxic gas
HP14	Ecotoxic

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· ***Uncleaned packagings:***
· ***Recommendation:***
Dispose of packaging according to regulations on the disposal of packagings.
Non contaminated packagings can be used for recycling.
Packagings that cannot be cleaned are to be disposed of in the same manner as the product.
· ***Recommended cleaning agent:*** Water, if necessary with cleaning agent.

SECTION 14: Transport information

· ***14.1 UN number or ID number***	
· ***ADR/RID, IMDG, IATA***	UN3082
· ***14.2 UN proper shipping name***	
· ***ADR/RID, IMDG, IATA***	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (copper sulphate, zinc sulphate)
· ***14.3 Transport hazard class(es)***	
· ***ADR/RID***	
· ***Class***	9 (M6) Miscellaneous dangerous substances and articles.
· ***Label***	9
· ***IMDG***	
· ***Class***	9 Miscellaneous dangerous substances and articles.
· ***Label***	9
· ***IATA***	
· ***Class***	9 Miscellaneous dangerous substances and articles.
· ***Label***	9
· ***14.4 Packing group***	
· ***ADR/RID, IMDG, IATA***	III
· ***14.5 Environmental hazards:***	
· ***Special marking (IATA):***	Symbol (fish and tree)
· ***14.6 Special precautions for user***	Warning: Miscellaneous dangerous substances and articles.
· ***Kemler Number:***	90
· ***EMS Number:***	F-A,S-F

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· **Stowage Category**	A
· **14.7 Maritime transport in bulk according to IMO instruments**	Not applicable
· **Transport/Additional information:**	
· **Quantity limitations**	On passenger aircraft/rail: No limit On cargo aircraft only: No limit
· **ADR/RID**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **Transport category**	3
· **Tunnel restriction code**	(-)
· **Remarks:**	**Special provision 375:** These substances when carried in single or combination packages containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of ADR/RID provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
· **IMDG**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **Remarks:**	**Special provision 375:** These substances when carried in single or combination packages containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of this code provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
· **UN "Model Regulation":**	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (COPPER SULPHATE, ZINC SULPHATE), 9, III

SECTION 15: Regulatory information

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

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** None of the ingredients is listed.
· **Seveso category** E1 Hazardous to the Aquatic Environment
· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t
· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t
· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
None of the ingredients is listed.

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· ***REGULATION (EU) 2019/1148***

· ***Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))***
None of the ingredients is listed.

· ***Annex II - REPORTABLE EXPLOSIVES PRECURSORS***
None of the ingredients is listed.

· ***Regulation (EC) No 273/2004 on drug precursors***
None of the ingredients is listed.

· ***Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors***
None of the ingredients is listed.

· ***National regulations***

· ***Water hazard class:*** Water danger class 3 (Self-assessment): extremely hazardous for water.

· ***Substances of very high concern (SVHC) according to REACH, Article 57***
None of the ingredients is contained.

· ***15.2 Chemical safety assessment:*** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
This safety data sheet meets the requirements of Regulation (EU) 2015/830 and 2020/878 amending Annex II of Regulation (EC) 1907/2006.

· ***Relevant phrases***
The phrases specified here are no labelling elements for the product but repeat the properties of the ingredients from section 3.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
EUH032 Contact with acids liberates very toxic gas.

· ***Department issuing data specification sheet:***

DEKRA This Safety Data Sheet has been drawn up in cooperation with:
DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,
phone: (+49) 511 42079 - 0, reach@dekra.com.

· ***Abbreviations and acronyms:***
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
ATE: Acute toxicity estimate values
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2