

According to directive 1907/2006/EC, 2020/878
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Trade name: Patina Rust on iron Part B

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

1.1 Product identification:

Product name: Metal patina 155 on copper, bronze and brass
UFI code: NAE0-KOHN-N009-CCTM
Product form: Mixture
Product type: Paint
Product group: Commercial product

1.2 Relevant identified uses of the substance or mixture and uses advised against: Main use category:

Industrial use, Professional use
Spec. industrial/professional use: Paint
Use of the substance or mixture: Industrial
Uses advised against: Do not use for spraying or atomising.
Not to be used for products that come into direct contact with the skin.
Not to be used for private purposes (household).
Food, drink and animal feed.

1.3 Details of the supplier of the safety data sheet:

Manufacturer : ASSYST bvba / A.S.O.W. bvba
Hellegatstraat 13a
2590 Berlaar
Belgium
Tel: +32 495 50 61 14 / +32 496 83 70 27
Website: www.assyst.org / www.artsuppliesonweb.com
Email: ao@assyst.org / vera.opsommer@assyst.org

1.4 Emergency phone number:

For Belgium: Call the **Poison Control Centre (070 245 245 - free)**, if not available: **02 264 96 30** (normal rate) or your doctor. In life-threatening situations, always call the European emergency number **112**.
NHS 24 Direct: For help from a GP, visit your GP surgery's website, use an online service to contact your GP, or call the surgery. **For urgent medical help**, use the NHS 111 online service, or **call 111** if you are unable to get help online. **For life-threatening emergencies, call 999** for an ambulance. There is more information about getting medical help on the NHS website.

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture:

Classification according to directive (EC) No 1272/2008 and amendments.

The product is classified according to current legislation.

Classification in accordance with Regulation (EC) No 1272/2008 as amended. Health hazards

Skin corrosion/irritation 2 Skin Irrit. 2 H315
Serious eye damage/eye irritation 2 Eye Irrit. 2 H319
Acute hazard to the aquatic environment 1 Aquatic Acute 1 H400
Chronic hazard to the aquatic environment 2 Aquatic Chronic 2 H411
Full text of H phrases in section 16.

Adverse physicochemical, health and environmental effects

Causes severe burns and eye damage.
Toxic to aquatic organisms, with long-lasting effects.

2.2 Labelling elements:

Labelling according to regulation (EC) No 1272/2008 [CLP/GHS]:

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**Hazard pictograms:****Signal word**

Danger.

Hazardous ingredients to be on the label:

- copper (ii) nitrate 2,5-hydrate pure
- ammonia ... %

Hazard statements:

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes severe eye irritation.

H410 Very toxic to aquatic organisms with long-lasting effects.

Precautions Prevention:

P260 - Do not breathe vapour, mist.

P391 - Clean up spillages/spills.

P273 - Avoid release to the environment.

P280 - Protective clothing/eye protection/face protection, Wear protective gloves.

Action:

P305+P351+P338+P310 - IF ON CONTACT WITH EYES: Rinse cautiously with water for several minutes; remove contact lenses, if possible; continue rinsing. Consult doctor immediately.

P303+P361+P353+P310 - IF ON SKIN (or hair): remove contaminated clothing immediately. Rinse/shower skin with water. Consult a doctor immediately.

2.3 Other dangers:**Results of PBT and vPvB assessment**Contains no PBT/vPvB substance at a concentration of $\geq 0.1\%$.**Endocrine-disrupting properties**Contains no endocrine disruptor (ED) at a concentration of $\geq 0.1\%$.**SECTION 3: Composition and information on ingredients**3.2 Mixtures:

Chemical Name	Cas N°. EG-N°. Index number Registration number	Classification (Regulation (EC) No 1272/008)	Concentration (%)
copper (ii) nitrate 2,5-hydrate pure	(CAS No) 19004-19-4 (EC No) 221-838-5 (REACH No): 01-2119969290-34	Ox. Sol. 1, H271 Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 ATE 940 mg/kg (oral)	< 15
Ammonium chloride	(CAS-Nr) 12125-02-9 (EG-Nr) 235-186-4 (EU Identification-Nr) 017-014-00-8 (REACH-nr) 01-2119489385-24	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 ATE 1.410 mg/kg (oral)	< 15
ammoniac%	(CAS-Nr) 1336-21-6 (EG-Nr) 215-647-6 (EU Identification-Nr) 007-001-01-2 (REACH-nr) 01-2119488876-14	Skin Corr. 1B, H314 STOT SE 3, H335 Aquatic Acute 1, H400 Specific concentration limits STOT SE 3; H335: C $\geq 5\%$ Nota: B	10 – 12,5

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		GHS-HC IOELV	
acetic acid ... %... %	(CAS-Nr) 64-19-7 (EG-Nr) 200-580-7 (EU Identification-Nr) 607-002-00-6 (REACH-nr) 01-2119475328-30	Flam. Liq. 3, H226 Skin Corr. 1A, H314 Eye Dam. 1, H318 Specific concentration limits Skin Corr. 1A; H314: $C \geq 90\%$ Skin Corr. 1B; H314: $25\% \leq C < 90\%$ Skin Irrit. 2; H315: $10\% \leq C < 25\%$ Eye Dam. 1; H318: $C \geq 25\%$ Eye Irrit. 2; H319: $10\% \leq C < 25\%$ Nota: B GHS-HC IOELV	1,92 – 2,4

Note:

B: Some substances (such as acids and bases) are as aqueous solutions of varying concentrations and these solutions must therefore be classified and labelled differently according to the danger associated with each concentration. Whenever Note B is mentioned in Part 3, a general designation such as: "nitric acid ... %". In this case, the supplier must state on the label the concentration as a percentage. Unless otherwise stated, it is assumed that the concentration is calculated on the basis of the percentage by weight.

GHS-HC: Harmonised classification (the classification of the substance is according to the annotation in accordance with 1272/2008/EC, Annex VI)

IOELV: Substance with a common indicative occupational exposure limit Full text of H phrases: see section 16

For explanation of abbreviations, see section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures:

First aid general:

Emergency workers: take care of your own protection too!

Remove contaminated clothing immediately.

At risk of unconsciousness, place and transport in stable lateral position.

First aid after inhalation:

If you feel unwell, consult a doctor.

Move to fresh air in case of incidental inhalation of vapours or decomposition products.

It may be dangerous for those giving mouth-to-mouth resuscitation.

First aid after skin contact:

Rinse immediately with plenty of water.

Consult a doctor.

Remove and wash contaminated clothing before .

First aid after eye contact:

IF CONTACT WITH EYES: Rinse gently with water for several minutes; remove contact lenses, if possible; continue rinsing.

Protect undamaged eye.

Consult an ophthalmologist immediately.

First aid after ingestion by mouth:

Rinse mouth with water.

Consult doctor/medical service.

DO NOT induce vomiting.

Let the victim rest.

Never administer anything by to an unconscious person.

4.2 Main acute and delayed symptoms and effects:

No additional information available

4.3 Indication of immediate medical attention and special treatment required:

Treatment of symptoms (removal of , monitoring of vital signs), no specific antidote known.

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Ensure suitable ventilation, especially in enclosed areas.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media:

Suitable extinguishing agents:

Dry powder. Carbon dioxide. Foam. alcohol-resistant foam.

Unsuitable extinguishing media:

Do not use a strong water jet.

5.2 Special hazards from the substance or mixture:

Fire hazard:

Possible formation of hazardous fumes.

Explosion hazard:

Heat can pressure and the bursting of closed vessels, spreading the fire and increasing the risk of burns and injuries.

Reactivity in case of fire:

Smoking/fogging.

Possible formation of toxic gases.

Hazardous decomposition products in case of fire:

When heated: formation of harmful gases/vapours. Carbon oxides (CO, CO₂).

5.3 Advice for firefighters:

Fire precautions:

Approaching with the wind.

Wear self-contained breathing apparatus.

Evacuate.

Extinguishing instructions:

Cool exposed vessels with a water spray or mist.

If possible, cool containers/tanks/reservoirs by spraying water.

Take account of environmentally polluting extinguishing water.

Protection during firefighting:

Approaching against the wind.

Autonomous breathing apparatus.

Full respirator.

Fully protective clothing.

Do not enter fire zone without suitable safety equipment, including respiratory protection.

Other information:

Do not inhale the vapours.

Avoid product contaminating groundwater.

Do not contaminate ground and surface water.

SECTION 6: Measures in case of accidental release of the substance or mixture

6.1 Personal precautions, protective equipment and emergency procedures:

General measures:

Evacuate personnel to a safe place.

Avoid contact with eyes and skin and do not vapour and mist.

Ensure adequate ventilation.

Wear personal protective equipment.

Keep upwind.

Use only after you read and understood all safety instructions.

Plug the leak if it can be safely.

See Chapter 8.

Contaminated work clothes must not leave the work area.

6.1.1. For persons other than emergency services

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Protective equipment:

For material selection of protective clothing: see "Material-handling".

6.1.2. For emergency services**Protective equipment:**

For material selection of protective clothing: see "Material-handling".

6.2 Environmental precautions:**Environmental precautions:**

Do not discharge into groundwater, surface water or the sewerage system.

For further information, see section 13.

6.3 Containment and cleaning methods and materials:**For containment:**

Collect and dispose of all waste in suitable and labelled containers in accordance with locally applicable regulations.

Absorb in an absorbent product (e.g. sand, sawdust, universal binder, silica gel).

Cleaning methods:

Vacuum up large spills with a pump or Hoover.

Absorb spill liquid in absorbent material including: sand, earth, vermiculite or lime.

Clean contaminated surfaces with plenty of water.

Other information:

The spilled product may dangerously slippery.

Do not inhale the fumes.

6.4 Reference to other sections:

Reference to other sections (8, 13). SECTION 7.

SECTION 7: Handling and storage:7.1 Precautions for safe handling of the substance or mixture:**Additional hazards in processing:**

Electrostatic charges can build during handling.

Precautions for safe handling of the substance or mixture:

Avoid contact with eyes and skin and do not vapour or mist.

Use only in well-ventilated areas.

Before using, consult the special instructions.

Use only after and understanding all safety instructions.

Avoid vapour formation.

Handle and open the container/packaging carefully.

Emergency eye showers and safety showers should be installed in close proximity to any place potential exposure.

Provide local exhaust or general ventilation of the room.

Wear personal protective equipment.

See chapter 8.

Wear respiratory protection in case of inadequate ventilation.

Hygiene measures:

Wash hands and other exposed parts with mild soap and water before eating, drinking, smoking or leaving work.

Do not eat, drink or smoke while using this .

Remove and wash contaminated clothing immediately before .

Contaminated work clothes must not leave the work area.

Handle in accordance with good industrial hygiene and safety practices.

7.2 Conditions for safe storage, including incompatible products:**Technical measures:**

Provide a local exhaust or general ventilation of the room.

Provide suitable ventilation, especially in enclosed spaces.

Emergency eye showers and safety showers should be installed in close proximity to any place potential

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exposure.

Storage conditions:

Keep behind lock.
Store in a dry place.
Keep container tightly closed to contamination and moisture absorption.
Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition.
Do not smoke.
All packaging should be labelled to warn against exposure.
Store in a safe manner in accordance with local/national regulations.

Non-combinable substances:

Keep away : strong acids, strong bases and oxidising agents, water, reducing agents.

Incompatible materials:

Keep away from strong acids and strong oxidising agents.

Heat and ignition sources:

Protect from heat and direct sunlight.
No flames, no sparks.
Remove all ignition sources.

Information on mixed storage:

Separation of foodstuffs. combustible materials.

Storage:

Protect from direct sunlight.
Store in a well-ventilated place.

Special packaging requirements:

Keep only in the original packaging.
Correctly labelled.

7.3 Specific end use:

For the relevant identified use(s) in section 1, the advice in section 7 should be taken into account.

SECTION 8: Exposure controls/personal protection measures

8.1 Control parameters:

National limits

Occupational exposure limits (exposure limits)

Country	Substance name	CAS No.	Identification	TGG 8h (ppm)	TGG 8h [mg/m ³]	TGG 15 min (ppm)	TGG 15 min [mg/m ³]	CW (ppm)	CW [mg/m ³]	Notation	Source
BE	Acetic acid	64-19-7	VLEP/GWBB	10	25	15	38				Belgian Official Gazette
EU	Acetic acid	64-19-7	IOELV	10	25	20	50				2017/164/EU
BE	Ammonia	7664-41-7	VLEP/GWBB	20	14	50	36				Belgian Official Gazette
EU	ammonia, anhydrous	7647-01-0	IOELV	20	14	50	36				2000/39/EC

Notation

CW: Ceiling value is a limit value that must not be exceeded (ceiling value)
TGG 15 min: Short-time value (short-term limit): limit that may not be exceeded and applies, for a period of 15 minutes (unless otherwise stated)
TGG 8 hours: Time-weighted average (long-term limit): measured or calculated from an eight-hour reference period (unless otherwise stated)

Values related to human health:

Relevant DNELs of ingredients

Name of substance	CAS No.	End point	Threshold	Protection objective, route of exposure	Used in	Exposure duration
Ammonia.....%	1336-21-6	DNEL	47.6 mg/m ³	human, via inhalation	(industrial) employees	chronic - systemic effects

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Ammonia.....%	1336-21-6	DNEL	47.6 mg/m ³	human, via inhalation	(industrial) employees	acute - systemic effects
Ammonia.....%	1336-21-6	DNEL	14 mg/m ³	human, via inhalation	(industrial) employees	chronic - local effects
Ammonia.....%	1336-21-6	DNEL	36 mg/m ³	human, via inhalation	(industrial) employees	acute - local effects
Ammonia.....%	1336-21-6	DNEL	6.8 mg/kg bw/day	human, through the skin	(industrial) employees	chronic - systemic effects
Ammonia.....%	1336-21-6	DNEL	6.8 mg/kg bw/day	human, through the skin	(industrial) employees	acute - systemic effects
Copper nitrate	10031-43-3	DNEL	1 mg/m ³	human, via inhalation	(industrial) employees	chronic - local effects
Copper nitrate	10031-43-3	DNEL	137 mg/kg bw/day	human, through the skin	(industrial) employees	chronic - systemic effects

Environmental values

Relevant PNECs of components

Name of substance	Cas no.	End point	Threshold value	Organism	Environmental compartments	Exposure duration
Ammonia.....%	1336-21-6	PNEC	0.001 mg/l	Aquatic organisms	fresh water	short term (one-off)
Ammonia.....%	1336-21-6	PNEC	0.001 mg/l	Aquatic organisms	Seawater	short term (one-off)
Copper nitrate	10031-43-3	PNEC	7.8 µg/l	Aquatic organisms	Freshwater	short term (one-off)
Copper nitrate	10031-43-3	PNEC	5.2 µg/l	aquatic organisms	Seawater	short term (one-off)
Copper nitrate	10031-43-3	PNEC	230 µg/l	aquatic organisms	sewage treatment plants (STP)	short term (one-off)
Copper nitrate	10031-43-3	PNEC	87 mg/kg	aquatic organisms	Freshwater sediment	short term (one-off)
Copper nitrate	10031-43-3	PNEC	676 mg/kg	aquatic organisms	Sea water sediment	short term (one-off)

8.2 Exposure control measures:

Individual protection measures (personal protective equipment) Eye/face protection

Wear safety goggles with side protection.

Skin protection Hand protection

Wear suitable gloves.

Suitable are EN 374-tested gloves against chemicals.

It is recommended that, in case of special applications, the chemical resistance of the safety gloves mentioned above be checked together with the supplier of the gloves.

Times are estimated values from measurements at 22°C and permanent contact.

Increased temperatures due to heated fabrics, body heat etc.

And a reduction in effective layer thickness due to stretching can lead to a significant reduction in breakthrough time.

If in doubt, contact the manufacturer.

For a layer thickness approximately 1.5 times larger / smaller, the respective breakthrough time is doubled / halved.

The data applies only to the pure .

When transferred to mixtures of substances, they should only be as guidelines.

Type of material

NBR (Nitrile rubber) Material thickness

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>0.11 mm

Breakthrough time of glove material

>480 minutes (permeation level: 6)

Other protective equipment

Insert rest periods for skin regeneration.

Preventive skin protection (skin-protective creams) is recommended.

Protection of respiratory organs

Respiratory protection is necessary in case of: Dust generation.

Particle filter (EN 143). P2 (filters at least 94% of air particles, colour code: white).

Managing environmental exposure

Avoid getting the product into drains, surface water or groundwater.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical state:	Liquid
Occurrence:	Liquid.
Colour:	dark blue.
Odour:	Characteristic scent.
Odour threshold value:	Not determined due to respiratory sensitising properties
pH:	not determined
pH solution:	not determined
Relative evaporation rate (butyl acetate=1):	not determined
Melting point:	Not applicable
Freezing point:	not determined
Boiling point:	not determined
Flash point:	Not applicable
Self-ignition temperature:	Not applicable
Decomposition temperature:	not determined
Flammability (solid, gas):	not determined Not flammable.
Vapour pressure:	not determined
Vapour pressure at 50°C:	not determined
Relative vapour density at 20°C:	not determined
Relative density:	not determined
Density:	not determined
Solubility:	Water: not determined
Partition coefficient n-octanol/water (Log Pow):	not determined
Viscosity, kinematic:	No data available
Viscosity, dynamic:	not determined
Explosive properties:	Based on its structure, this product is classified as non-explosive.
Oxidising properties:	Due to its structure, the is classified as non-oxidising.
Explosion limits:	not established

9.2 Other information

SADT:	not established
VOC content:	not determined
Other properties:	Where necessary, information on other physical and chemical parameters is given in this section.
Additional information:	No further information available.

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SECTION 10: Stability and reactivity**10.1 Reactivity:**

Stable under normal conditions.

10.2 Chemical Stability:

Stable under normal conditions.

10.3 Potential Hazardous Reactions:

May decompose on exposure to high temperature, toxic fumes.

Reacts with: Strong acid.

Reacts violently with bases. water.

10.4 Conditions to avoid:

Keep away from heat sources and direct sunlight.

No flames, no sparks.

Remove all ignition sources.

10.5 Chemically interacting Materials:

Acids and bases. Strong oxidising agents.

10.6 Hazardous Decomposition Products:

No hazardous decomposition products, if regulations/indication are observed during storage and handling. zinc oxide.

SECTION 11: Toxicological information**11.1 Information on toxicological effects:****Acute toxicity :**

Harmful if swallowed.

Component:

copper (ii) nitrate 2,5-hydrate pure (19004-19-4)

Acute toxicity

Harmful if swallowed.

Route of exposure	End point	Value	Species	Method	Source
Oral	LD50	940 mg/kg	Rat		TOXNET

ammonium chloride (12125-02-9)

Acute toxicity

Harmful if swallowed.

Route of exposure	End point	Value	Species	Method	Source
Oral	LD50	1,410 mg/kg	Rat		ECHA
Dermal	LD50	>2,000 mg/kg	Rat		ECHA

Acetic acid ...% (64-19-7)

Acute toxicity :

Is not as acutely toxic.

Acute toxicity of ingredients					
Name of substance	CAS No.	Route of exposure	End point	Value	Species
Acetic acid ... %	64-19-7	Oral	LD50	3,310 mg/kg	rat

Skin corrosion/irritation:

Causes severe burns. **Serious eye**

damage/eye irritation: Causes serious eye damage.

Respiratory/skin sensitisation:

Not classified (Based on available data; classification criteria not met)

Mutagenicity in gametes:

Not classified (Based on available data; classification criteria not met)

Carcinogenicity:

Not classified (Based on available data; classification criteria not met)

Reproductive toxicity:

Not classified (Based on available data; classification criteria not met)

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STOT on single exposure:

May cause respiratory irritation.

STOT on repeated exposure:

Not classified (Based on available data; classification criteria not met)

Aspiration hazard:

Not classified (Based on available data; classification criteria not met)

Potential adverse human health effects and possible symptoms:

Causes severe burns and eye damage.

Other information:

The product has not been tested.

The statement is derived from substance/products with similar structure or composition.

No experimental studies on the product are available.

The information provided is based on our knowledge of the ingredients and the classification of the product was determined from calculations.

11.2 Endocrine-disrupting properties

Contains no endocrine disruptor (ED) at a concentration of $\geq 0.1\%$.

11.3 Information on other hazards

There is no further information.

SECTION 12: Ecological information**12.1 Toxicity:**

Toxic to aquatic organisms, with long-term effects.

Aquatic toxicity (acute) - Ammonium chloride CAS 12125-02-9

End point	Value	Species	Source	Exposure time
LC50	42.91 mg/l	Fish	ECHA	96 h
EC50	101 mg/l	invertebrate aquatic organisms	ECHA	48 h

Aquatic toxicity (acute) - acetic acid CAS 64-19-7

(Chronic) aquatic toxicity of constituents					
Name of substance	CAS No.	End point	Value	Species	Exposure time
Acetic acid ... %	64-19-7	LC50	>300.8 mg/l	Fish	96 h
Acetic acid ... %	64-19-7	EC50	>300.8 mg/l	aquatic invertebrates	48 h
Acetic acid ... %	64-19-7	ErC50	>300.8 mg/l	Alg	72 h

Aquatic toxicity (acute) - Ammonia ...% CAS 1336-21-6

(Chronic) aquatic toxicity of constituents					
Name of substance	CAS No.	End point	Value	Species	Exposure time
Ammonia.....%	1336-21-6	EC50	2,700 mg/l	Alg	18 d

Aquatic toxicity (acute) - Copper nitrate CAS 10031-43-3 Aquatic

End point	Value	Species	Source	Exposure time
LC50	193 µg/l	Fish	ECHA	96 h

toxicity (chronic) - Ammonium chloride CAS 12125-02-9

End point	Value	Species	Source	Exposure time
ErC50	1,300 mg/l	Alg	ECHA	5 d
EC50	2,700 mg/l	Alg	ECHA	18 d

12.2 Persistence and degradability:**Metallic patina 155****Persistence and degradability:**

Not established.

Constituents:

acetic acid ... % (64-19-7)

Degradability of ingredients						
Name of substance	CAS No.	Process	Degradation rate	Time	Method	Source
Acetic acid ... %	64-19-7	biotic/abiotic	99%	30 d		

ammonia ... % (1336-21-6)

Biodegradation

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Not readily biodegradable.

12.3 Bioaccumulation:

Metallic patina 155

Partition coefficient n-octanol/water (Log Pow):

not established

Bioaccumulation:

This product has not been tested for impact.

Components

acetic acid ... % (64-19-7)

Bioaccumulation of components				
Name of substance	CAS No.	BCF	Log KOW	BZV5/CZV
Acetic acid ... %	64-19-7	3.16	-0.17 (pH value: 7, 25 °C)	

ammonium chloride (12125-02-9)

Does not concentrate significantly in organisms.

n-octanol/water (log KOW)	-4.37 (Lit.)
---------------------------	--------------

ammonia ... % (1336-21-6)

Does not concentrate significantly in organisms.

12.4 Mobility in Soil:

No data are available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Endocrine-disrupting properties

Contains no endocrine disruptor (ED) at a concentration of $\geq 0.1\%$.

12.7 Other adverse effects

There are no data .

SECTION 13: Disposal instructions

13.1 Waste treatment methods:

Dispose of this substance and its packaging as hazardous waste.

Dispose of contents/packaging in accordance with local/regional/national/international regulations.

Information regarding wastewater discharge

Do not throw waste into the sink.

Avoid discharge into the environment.

Ask for special instructions/safety card.

Waste treatment of containers/packaging

It is hazardous waste; only approved packaging (e.g. in accordance with ADR) may be . Contaminated packaging is to be treated like the substance itself.

Fully emptied containers can be .

Relevant provisions on waste prevention

The allocation of waste key numbers/waste markings should be industry- and process-specific in accordance with AVV.

Hazardous properties of waste HP 4 irritant

- skin irritation and eye damage HP 6 acute toxicity

HP 14 ecotoxic

Comments

Waste is separated into the categories that can be treated separately by local or national waste management services.

Please note the relevant national or regional provisions.

Uncontaminated and completely empty containers can be used again.

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SECTION 14: Information relating to transport

14.1 UN number

ADR/RID/ADN: UN 1760
IMDG: UN 1760
IATA: UN 1760

14.2 Proper cargo name in accordance with UN model regulations

ADR/RID/ADN: CORROSIVE LIQUID, N.O.S.
IMDG: CORROSIVE LIQUID, N.O.S.
IATA: Corrosive liquid, n.o.s.

Description of transport document

ADR/RID/ADN: UN 1760 CORROSIVE LIQUID, N.O.S. (CONTAINS ;
Reaction products of phosphoryl trichloride and 2-
methyloxirane (TCPP) ; phthalic anhydride ; copper (ii)
nitrate 2.5-hydrate pure ; acetic acid ... %), 8, II, (E),
ENVIRONMENTALLY DANGEROUS

IMDG: UN 1760 CORROSIVE LIQUID, N.O.S. (CONTAINS ; ;
copper (ii) nitrate 2,5-hydrate pure ; acetic acid ... %), 8,
II

IATA: UN 1760 Corrosive liquid, n.o.s. (CONTAINS ;
Reaction products of phosphoryl trichloride and 2-
methyloxirane (TCPP) ; phthalic anhydride ; copper (ii)
nitrate 2.5-hydrate pure ; acetic acid ... %), 8, II,
ENVIRONMENTALLY DANGEROUS

14.3 Transport hazard class(es)

ADR/RID/ADN: 8
IMDG: 8
IATA: 8

14.4 Packing group

ADR/RID/ADN II
IMDG: II
IATA II

14.5 Environmental hazards

ADR/RID/AND
Environmentally hazardous yes
IMDG
Marine pollution: yes
IATA
Environmental hazard: yes

14.6 Special precautions for user

Road transport

Classification code (ADR): C9
Special provision (ADR): 274
Limited quantities (ADR): 11
Exempted quantities (ADR): E2
Packing instructions (ADR): P001, IBC02
Mixed packing instructions (ADR): MP15
Instructions for transport tanks and
bulk containers (ADR): T11
Special provisions for transport
tanks and bulk containers (ADR): TP2, TP27
Tank code (ADR): L4BN
Tank transport vehicle: AT

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Transport category (ADR):	2
Hazard identification number (Kemler no.):	80
	80
	1760
Orange identification sign:	
Code for restrictions in tunnels (ADR):	E
Transport at sea	
Special provision (IMDG):	274
Packing instructions (IMDG):	P001
Packing instructions IBC (IMDG):	IBC02
Instructions for tanks (IMDG):	T11
Special provisions for tanks (IMDG):	TP2, TP27
No NS (Fire):	F-A
No NS (Waste):	S-B
Stowage category (IMDG):	B
Stowage and handling (IMDG):	SW2
Measures and observations (IMDG):	Causes burns to skin, eyes and mucous membranes.
MFAG-No:	127;128
Air transport	
PCA Expected quantities (IATA):	E2
PCA Limited quantities (IATA):	Y840
PCA limited quantity max. net quantity (IATA):	0.5L
PCA packing requirements (IATA):	851
PCA max. net quantity (IATA):	1L
CLA packaging requirement (IATA):	855
CLA max net quantity (IATA):	30L
Special provision (IATA):	A3, A803
ERG (IATA) code:	8L
Transport on inland waters	
Classification code (ADN):	C9
Special provision (ADN):	274
Limited quantities (ADN):	1 L
Exceptional quantities (ADN):	E2
Equipment required (ADN):	PP, EP
Number of blue cones/lights (ADN):	0
Rail transport	
Classification code (RID):	C9
Special provision (RID):	274
Restricted quantities (RID):	1L
Exceptional quantities (RID):	E2
Packaging instructions (RID):	P001, IBC02
Special requirements for combined packaging (RID):	MP15
Instructions for transport tanks and bulk containers (RID):	T11
Special provisions for transport tanks and bulk containers (RID):	TP2, TP27
Tank codes for RID tanks (RID):	L4BN
Transport category (RID):	2
Express pack (RID):	CE6
Hazard identification number (RID):	80
<u>14.7 Transport in bulk according to Annex II to MARPOL 73/78 and the IBC Code</u>	
Not applicable for product as delivered.	

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SECTION 15: Statutory information

15.1 Specific safety, health and environmental regulations and legislation for the substance or mixture:

Relevant European Union (EU) provisions Restrictions under REACH, Annex XVII

Restricted hazardous substances (REACH, Annex XVII)				
Name of substance	Name according to inventory	CAS No.	Restriction	No.
Acetic acid	this product meets the criteria for classification of Regulation No 1272/2008/EC		R3	3
Acetic acid ... %	flammable / pyrophoric		R40	40
Acetic acid ... %	substances in ink for tattoo or permanent make-up		R75	75
Ammonia solution	this product meets the criteria for classification of Regulation No 1272/2008/EC		R3	3
Ammonia.....%	substances in ink for tattoo or permanent make-up		R75	75
Ammonium chloride	inorganic ammonium salts		R65	65
Ammonium chloride	substances in ink for tattoo or permanent make-up		R75	75
Copper (II) nitrate trihydrate	substances in ink for tattoo or permanent make-up		R75	75

Legend R3

1. May not be :

- ✓ in decorative objects intended to obtain light or colour effects by different phases, for example in mood lamps and ashtrays,
- ✓ in charades and fop articles,
- ✓ in games for one or more persons or in any object intended to be as such, even if it acts as an ornamental object.

2. Articles not with point 1 shall not be placed on the market.

3. May not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or a fragrance or both, and if they:

- ✓ can be used as fuel in decorative oil lamps intended for the general public, and
- ✓ are hazardous by inhalation and are labelled with H304.

4. Decorative oil lamps intended for the general public may be placed on the market only if they comply with the European standard on decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).

5. Without prejudice to the application of other Union provisions relating to the classification, labelling and packaging of substances and mixtures, suppliers must ensure that products comply with the following requirements before they are placed on the market:

- a) lamp oils marked with H304 and for the general public shall be visible, legible and bear indelibly the following statements: "Keep lamps filled with this liquid out of the reach of children"; and, no later than 1 December 2010, "A small sip of lamp oil - or even just sucking on the wick of lamps - can cause life-threatening lung damage";
- b) barbecue lighter fluids labelled with H304 and for the general public must be legibly and indelibly marked no later than 1 December 2010 with the following statement: "A small sip of lighter fluid may cause life-threatening lung damage";
- c) lamp oils and barbecue lighter fluids marked H304 and for the general public shall be packaged in black opaque containers of no more than 1 litre by 1 December 2010.

R40

1. Shall not be used as substances or in mixtures in aerosols marketed for supply to the general public for entertainment or decorative purposes, such as:

- ✓ metallic glitter (mainly intended as a decorative item);
- ✓ artificial snow and frost (decorative item);
- ✓ "fart pads" (fop article);
- ✓ "silly string";
- ✓ fake scrolls (fop article);
- ✓ party horns (entertainment article);
- ✓ flakes and foam (decoration article);
- ✓ imitation spider webs (fop article);
- ✓ stink bombs (jest article).

2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before placing on the market that the packaging of the aerosols referred to above is marked visibly, legibly and indelibly as follows: "Intended for professional users only".

3. However, points 1 and 2 do not apply to aerosols referred to in Article 8(1a) of Council Directive 75/324/EEC (2).

4. Aerosols referred to in points 1 and 2 shall not be placed on the market unless they comply with the referred to in those points.

R75

1. Shall not be placed on the market in mixtures for tattooing purposes, and mixtures such substances shall not be used for tattooing purposes after 4 January 2022 if the substance(s) in question is/are present or the following circumstances occur:

- a) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogenic category 1A, 1B or 2, or as germ cell mutagenic category 1A, 1B or 2, the concentration of that substance in the is equal to or greater than 0.00005 % by weight;
- b) in the case of a substance classified as toxic to reproduction category 1A, 1B or 2 in Part 3 of Annex VI to Regulation (EC) No 1272/2008, the concentration of that substance in the mixture is equal to or greater than 0.001 % by weight;

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- c) in the case of a substance classified as a category 1, 1A or 1B skin allergen in Part 3 of Annex VI to Regulation (EC) No 1272/2008, the concentration of that substance in the mixture is equal to or greater than 0.001 % by weight;
 - d) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as corrosive to the skin, category 1, 1A, 1B or 1C, or irritant to the skin, category 2, or for serious eye damage, category 1 or irritant to the eyes, category 2, the concentration of that substance in the mixture is equal to or greater than:
 - i) 0.1 % by weight, if the substance is solely as a pH regulator;
 - ii) 0.01% by weight, in all other cases;
 - e) in the case of a substance in Annex II to Regulation (EC) No 1223/2009 (*1), a concentration in the mixture equal to or greater than 0,00005 % by weight;
 - f) in the case of a substance for which column g (Product type, body parts) of the table in Annex IV to Regulation (EC) No 1223/2009 one or more of the following types of conditions, the concentration of the substance in the mixture is equal to or greater than 0.00005 % by weight:
 - i) "Products washed off, out or away";
 - ii) "Do not use in products applied mucous membranes";
 - iii) "Do not use in eye products";
 - g) in the case of a substance for which a condition is in column h (Maximum concentration in the product ready for use) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the concentration of the substance in the mixture does not meet the condition specified in that column, or the substance otherwise fails to meet it;
 - h) in the case of a substance listed in Appendix 13 to this Annex, the concentration of the substance in the mixture is equal to or greater than the concentration limit specified for that substance in that Appendix.
2. For the purposes of this entry, the use of a mixture "for tattooing purposes" means the injection or insertion of the mixture into the skin, mucous membranes or eyeball of a person by means of a process or procedure (including procedures commonly referred to as "permanent makeup", cosmetic tattooing, "microblading" and "micropigmentation"), the purpose of leaving a permanent mark(s) or drawing on that person's body.
3. Where a substance not listed in Appendix 13 under more than one of items (a) to (g) of paragraph 1, the most stringent of the concentration limits set out in those items shall apply to that substance. If a substance listed in Appendix 13 also falls under one or more points (a) to (g) of paragraph 1, the concentration limit set out in paragraph 1(h) shall apply to that substance.
4. By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023:
- a) Pigment Blue 15:3 (CI 74160, EC No 205-685-1, CAS No 147-14-8);
 - b) Pigment Green 7 (CI 74260, EC No 215-524-7, CAS No 1328-53-6).
5. If Part 3 of Annex VI to Regulation (EC) No . 1272/2008 is amended after 4 January 2021 and thereby classifies or reclassifies a substance in such a way that it falls under (a), (b), (c) or (d) of item 1 of this entry, or under a different item than before, and if the date of application of that new or revised classification is after the date referred to in item 1 or, as the case may be, item 4 of this entry, that amendment shall be treated, for the purposes of applying this entry to that substance, as on the date of application of that new or revised classification.
6. Where the entry of a substance in Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 such that the substance falls under (e), (f) or (g) of point 1 of this entry, or under a different point than before, and if the amendment takes effect after the date referred to in point 1 or, as the case may be, point 4 of this entry, that amendment shall be treated, for the purposes of this entry to that substance, as taking effect from the date falling 18 months after the entry into force of the act which adopted that amendment.
7. Suppliers marketing a mixture for tattooing purposes after 4 January 2022 shall ensure that the following information is included on the mixture:
- a) the text "Mixture for use in tattoos or permanent make-up";
 - b) a unique batch identification reference number;
 - c) the list of ingredients according to the nomenclature defined in the glossary of common ingredient names in accordance with Article 33 of Regulation (EC) No 1223/2009, or, in the absence of a common ingredient name, the IUPAC name. In the absence of a common ingredient name or IUPAC designation, the CAS and EC number. Ingredients shall be listed in descending order by weight or by volume of the ingredients at the time of composition. Ingredient" means any substance added during the formulation of the mixture for tattooing purposes and present therein. Impurities are not considered ingredients. Where the name of a substance used as an ingredient within the meaning of this entry must already be indicated on the label in accordance with Regulation (EC) No 1272/2008, that ingredient need not be indicated in accordance with this Regulation;
 - d) the additional entry "pH regulator" for substances covered by paragraph 1(d)(ii);
 - e) the statement "Contains nickel. May cause allergic reactions." If the mixture contains nickel under the conditions specified in Appendix 13 stated concentration limit;
 - f) the statement "Contains hexavalent chromium (VI). May cause allergic reactions." If the mixture contains chromium (VI) under the concentration limit specified in Appendix 13;
 - g) safety precautions for use, if not already required to be on the label in accordance with Regulation (EC) No 1272/2008. The information shall clearly visible, easily legible and indelible. The information shall be given in the official language(s) of the Member State(s) where the mixture is placed the market, unless otherwise specified by the Member State(s) concerned.
 - h) If there is not space on the packaging for the referred to in the first subparagraph, that shall, except as point (a), be included in the instructions for use. The person the mixture shall provide the information specified on the packaging or in the instructions for use in accordance with this point to the person undergoing the procedure before the mixture is used for tattooing purposes.
8. Mixtures without the text "Mixture for use in tattoos or permanent make-up" must not be used for tattooing purposes be .

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9. This entry does not apply to substances which are gases at a temperature of 20 °C and pressure of 101.3 kPa, or which generate a vapour pressure greater than 300 kPa at a temperature of 50 °C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8).
10. This entry does not apply to the placing on the market or use of mixtures for tattooing purposes that are placed on the market or used exclusively as medical devices or accessories to a medical device within the meaning of Regulation (EU) 2017/745. Where a mixture has not been placed on the market or cannot be used exclusively as a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and the requirements of this apply cumulatively.

List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

None of the ingredients are listed.

Seveso Directive

2012/18/EU (Seveso III)

No.	Hazardous substance/hazard categories	Thresholds (tonnes) for application of requirements for lower-tier establishments and upper-tier establishments	Nuts
35	ammonia, anhydrous	50 - 200	
P8	oxidising liquids and solids	50 - 200	55)

Notation

55) Oxidising liquids of category 1, 2 or 3, or oxidising solids of category 1, 2 or 3

Decopaint Directive

VOC content: (acetic acid) 10 - 25 %

VOC content: (acetic acid) 2,426 g/l

Directive on industrial emissions (IE Directive)

VOC content: (acetic acid) 10 - 25 %

VOC content: (acetic acid) 2,426 g/l

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

None of the ingredients are listed.

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

Pollutant release and transfer registers (PRTRs)			
Name of substance	CAS No.	Comments	Threshold for emissions in the air (kg/year)
Ammonia.....%	7664-41-7		10.000

Water framework directive (WFD)

List of pollutants (WFD)

Naam van de stof	Naam volgens inventaris	CAS Nr.	Opgenomen in	Opmerkingen
Ammonium chloride	Substances contributing to eutrophication (especially nitrates and phosphates)		a)	
Ammoniac.....%	Substances contributing to eutrophication (especially nitrates and phosphates)		a)	
Copper (II) nitrate-trihydrate	Substances contributing to eutrophication (especially nitrates and phosphates)		a)	
Copper (II) nitrate-trihydrate	Substances and preparations, or their degradation products, which have been shown to possess carcinogenic or mutagenic properties or properties which may cause effects in or via the aquatic environment on steroidogenic functions, thyroid functions, reproduction or other hormonal functions		a)	
Copper (II) nitrate-trihydrate	Metals and metal compounds		a)	

Legend

(a) Indicative list of the main pollutants

Regulation on marketing and use of explosives precursors

None of the constituents is listed.

Drug precursor regulation

None of the ingredients are listed.

Regulation on ozone-depleting substances

None of the ingredients are listed.

Regulation on export and import of dangerous chemicals (PIC)

None of the ingredients are listed.

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Regulation on persistent organic pollutants (POPs)

None of the ingredients are listed.

Other information

Directive 94/33/EC on the protection of young people at . Observe work restrictions in accordance with the Pregnancy Directive (92/85/EEC) for expectant or nursing mothers.

National inventories

Country	List	Status
AU	AIC	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	all ingredients are listed
EU	REACH Reg.	all ingredients are listed
JP	CSCL-ENCS	all ingredients are listed
JP	ISHA-ENCS	not all ingredients are listed
KR	KECI	all ingredients are listed
MX	INSQ	all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed (ACTIVE)
UN	NCI	all ingredients are listed

Legend

AIC:	Australian Inventory of Chemical Substances
CICR:	Chemical Inventory and Control Regulation
CSCL-ENCS:	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL:	Domestic Substances List (DSL)
ECSI:	EC inventory (EINECS, ELINCS, NLP)
IECSC:	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ:	National Inventory of Chemical Substances
ISHA:	ENCS Inventory of Existing and New Chemical Substances (ISHA-ENCS)
KECI:	Korea Existing Chemicals Inventory
NCI:	National Chemical Inventory
NZIoC:	New Zealand Inventory of Chemicals
PICCS:	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg:	REACH registered substances
TCSI:	Taiwan Chemical Substance Inventory
TSCA:	Toxic Substance Control Act

15.2 Chemical safety assessment:

No chemical safety assessment has been carried out.

SECTION 16: Other information

Aligning with regulation: Regulation (EC) No 1907/2006 (REACH), amended by 2020/878/EU.

Section 2.3:

Endocrine-disrupting properties: Contains no endocrine disruptor (ED) at a concentration of $\geq 0.1\%$.

Heading 15.1:

National inventories: change in listing (table).

List of pollutants (WFD): change in the list (table).

Other information: Directive 94/33/EC on the protection of young people at . Observe work restrictions in accordance with the Pregnancy Directive (92/85/EEC) for expectant or nursing mothers.

Integral text of sentences H and EUH:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Acute hazard to the aquatic environment, Category 1
Aquatic Chronic 1	Chronic danger to the aquatic environment, Category 1
Aquatic Chronic 2	Chronic hazard to the aquatic environment, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2

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Flam. Liq. 3	Flammable liquids, Category 3
With. Corr. 1	Corrosive to metals, Category 1
Ox. Sol. 1	Oxidising solids, Category 1 Skin Corr.
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity by single exposure, Category 3, respiratory tract irritation

H226 Flammable liquid and vapour.
H272 May promote fire; oxidising.
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory tract irritation.
H400 Very toxic to aquatic organisms.
H410 Very toxic to aquatic with long-lasting effects.
H411 Toxic to aquatic life with long-lasting effects.

Abbreviations and acronyms:

2017/164/EU:	Commission Directive establishing a fourth list of indicative occupational exposure limit values under Council Directive 98/24/EC and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU
ADN :	Accord européen relatif au transport internationale des marchandises Dangereuses par voies de navigation Intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR :	Accord relatif au transport internationale des marchandises Dangereuses par route (Agreement concerning the international carriage of dangerous goods by road)
ADR/RID/ADN:	Agreements on the international carriage of dangerous goods by road/rail/inland waterway (ADR/RID/ADN)
ATE:	Acute toxicity estimate
BCF:	Bioconcentration factor
BOD:	Biological oxygen demand
Carc:	Carcinogenicity
CAS:	Chemical Abstracts Service (database for chemicals and their unique number, the CAS registration number) catalogue no. The catalogue number is the identifier used in Part 3 of Annex VI to Regulation (EC) No 1272/2008
CLP:	Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging (CLP) of substances and mixtures.
CW:	Ceiling value (ceiling value)
COD:	Chemical Oxygen Demand
DGR:	Dangerous Goods Regulations, regulations for the transport of dangerous goods, see IATA/DGR
DNEL:	Derived No-Effect Level.
EbC50:	≡ EC50: in this method, the concentration of a test substance at which relative to the control a 50 % reduction in growth (EbC50) or growth rate (ErC50) EC50 occurs: Effective concentration 50 . The EC50 corresponds to the concentration of a tested substance causing 50 % change in response (e.g. to growth) over a specified time interval
EC No.:	The EC register (EINECS, ELINCS and the NLP register) is the source for the seven-digit EC number as a prefix for substances (European Union)

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ED:	Endocrine disruptor
EINECS:	European Inventory of Existing Commercial Chemical Substances.
ELINCS:	European List of Notified Chemical Substances
EmS:	Emergency Schedule (contingency plan)
ErC50:	≡ EC50: in this method, the concentration of a test substance at which relative to the control a 50% reduction in growth (EbC50) or growth rate (ErC50) occurs Eye Dam: Causes serious eye damage
Eye Irrit:	Irritating to eyes
Flam. Liq:	Flammable liquid
GHS:	"Globally Harmonised System of Classification and Labelling of ", developed by the United Nations
CN code:	Combined Nomenclature
HS:	The Harmonised Commodity Description and Coding System (Harmonised System designed by the World Customs Organisation)
IATA:	International Air Transport Association
IATA/DGR:	Dangerous Goods Regulations (DGR) for aviation (IATA)
ICAO:	International Civil Aviation Organisation.
ICAO-TI:	Technical instructions for the safe transport of dangerous goods by air.
IMDG:	International Maritime Dangerous Goods Code (IMDG Code) IMDG Code: International Maritime Dangerous Goods Code
IOELV:	Indicative occupational exposure limit value
LC50:	Lethal concentration 50 : is the concentration value in air of the material at which 50 % of test objects die during a given time interval
LD50:	Lethal dose 50 : the LD50 to the dose of a tested substance at which 50 of the test subjects die during a specified time interval
LOEC:	Lowest concentration at which an effect was observed
log KOW:	n-Octanol/water
With. Corr:	Substance or mixture corrosive(s) for metals
M-factor:	A multiplication factor. It applies to the concentration of a substance classified as hazardous to the aquatic environment, acute category 1 or chronic category 1, which is used to determine, by the summation method, the classification of a mixture in which the substance is present
Moniteur Belge:	Royal Decree amending the Royal Decree of 11 March 2002 on protection of the health and safety of workers from the risks of chemical agents at work
Muta:	Mutagenicity in gametes
NLP:	No-Longer Polymer
NOEC:	Concentration with no observed effects
PBT:	Persistent, Bioaccumulative and Toxic
PNEC:	Predicted no-effect concentration
ppm:	Particles per million
REACH:	Registration, Evaluation, Authorisation and Restriction of Chemicals.
Repr:	Reproductive toxicity
Resp. Sens:	Respiratory sensitisation
RID :	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the international carriage of dangerous goods by rail)
Skin Corr. :	Skin corrosive
Skin Irrit. :	Skin Irritant
SVHC:	Substance of very high concern
TGG 15 min:	Short-time value
TGG 8 hours:	Time weighted average
VOCS:	Volatile organic compounds

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vPvB: Very persistent and very bioaccumulative

Data sources:

Manufacturer/supplier. ASSYST bvba

Formatting: Quick.MSDS Sprl - Belgiuminfo@quickmsds.de +32 (0) 479 469 465.

Training advice:

Normal use of this product involves only use as described on the product packaging. Before using consult the special instructions. Only use after reading and understanding all safety instructions.

Other information:

No additional information available. This safety data sheet has been prepared in accordance with the applicable European Directives and is applicable in all countries that have transposed these directives into their own legislation.

MSDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the application of health, safety and environmental aspects. It should therefore not be construed as a guarantee any specific property of the product.