

ML SPRAY - ANTI CORROSION AGENT

SECTION 1: SUBSTANCE/MIXTURE IDENTIFICATION AND MANUFACTURER/SUPPLIER IDENTIFICATION

1.1. Product identification

ML SPRAY / brown - ANTI CORROSION AGENT
UFI: W501-P0GY-8000-X48X

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

Surface protection. *
Aerosol coating. *

Area of use:

SU3 Industrial manufacturing: Uses of substances as such or in preparations at industrial sites
SU21 Consumer uses: Private households / general public / consumers
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Product category:

PC9a Coatings and paints, thinners, paint removers

Process category:

PROC7 Industrial spraying
PROC11 Non industrial spraying

Use of the substance/mixture:

Surface protection.

1.3 Data of the safety data sheet supplier

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1.4. Emergency telephone

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SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

The mixture was classified as hazardous according to the regulations in force - see section 15 of the Safety Data Sheet.

Classification 1272/2008/EC:



GHS02 flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS07

Skin Irrit. 2	H315	Causes skin irritation.
Skin Irrit. 2	H319	Causes eye irritation. *
STOT SE 3	H336	May cause drowsiness or dizziness.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Aquatic Chronic 3	H412	Harmful to aquatic life with long-lasting effects. *

2.2. Label elements

Classification according to the regulation (EC) no 1272/2008:

The product has been classified and labelled according to CLP regulation.

Hazard pictograms:



Signal word: **Danger.**

ML SPRAY - ANTI CORROSION AGENT

Components indicating hazard for labelling:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane
 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics
 Reaction mass of ethylbenzene and xylene*
 Hydrocarbons, C9, aromatic hydrocarbons

Hazard statements:

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
 H315 Causes skin irritation.
 H319 Causes eye irritation. *
 H336 May cause drowsiness or dizziness.
 H412 Harmful to aquatic life with long-lasting effects. *

Precautionary statements*:

P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P211 Do not spray on an open flame or other ignition source.
 P251 Pressurized container – Do not pierce or burn, even after use.
 P260 Do not breathe spray.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/eye protection.
 P302+P352 IF ON SKIN: Wash skin with plenty of water and soap.
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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. *
 P312 Call a POISON CENTER/doctor if you feel unwell. *
 P403 Store in a well-ventilated place.
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
 P501 Dispose of contents/container in accordance with local / regional / national / international regulations.

2.3. Other hazards

Results of PBT and vPvB assessment:

PBT: Not applicable.
vPvB: Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.

3.2. Mixtures

Description: Mixture

Hazardous components:		
CAS: 106-97-8 EINECS: 203-448-7 Reg. no: 01-2119474691-32	Butane (1,3 Butadiene <0,1%) Flam. Gas 1, H220; Press. Gas (Comp.), H280.	25-< 50%
EC number: 921-024-6 Reg. no: 01-2119475514-35	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	10-<25% *
CAS: 74-98-6 EINECS: 200-827-9 Reg. no: 01-2119486944-21	propane Flam. Gas 1, H220; Press. Gas C, H280	10-< 25%
EC number: 919-857-5 Reg. no: 01-2119463258-33	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336; EUH066 *	10-< 25%
EC number: 905-588-0 Reg. no: 01-2119488216-32 01-2119486136-34	Reaction mass of ethylbenzene and xylene * Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	2.5-< 10%
CAS: 75-28-5 EINECS: 200-857-2 Reg. no: 01-2119485395-27	Isobutane * Flam. Gas 1A, H220; Press. Gas (Comp.), H280.	2.5-< 10%
EC number: 918-668-5 Reg. no.: 01-2119455851-35	Hydrocarbons, C9, aromatic hydrocarbons Composed of 98-82-8 isopropylbenzene (<2%); 71-43-2 benzene (<0.1%) Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336, EUH066	1-< 2.5%
CAS: 68608-26-4 EINECS: 271-781-5 Reg. no: 01-2119527859-22	Sulfonic acids, petroleum, sodium salts Eye Irrit. 2, H319	1.0-< 2.5%
CAS: 111-76-2 EINECS: 203-905-0 Reg. no: 01-2119475108-36	2-butoxyethanol Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319 ATE* LD50 oral 1200 mg/kg ATE inhalation: 11 mg/l	0.1-< 1.0%

ML SPRAY - ANTI CORROSION AGENT

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

After inhalation: In case of loss of consciousness place and transport in stable recovery position.

After contact with skin: Immediately wash with water and soap and rinse thoroughly.

After contact with eyes: Rinse opened eyes for several minutes under running water.

After swallowing: Do not induce vomiting and call a doctor.

4.2. Most important symptoms both acute and delayed

No further relevant data available.

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

No further relevant data available.

SECTION 5: FIREFIGHTING MEASURES

Useful extinguishing media: water mist, extinguishing powder, carbon dioxide., foam resistant to alcohol.

Extinguishing media unsuitable due to safety considerations: Full jet of water.

5.2. Special hazards arising from the substance or mixture

No further relevant data available.

5.3. Advice for fire fighters

Special protective equipment: Wear respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency measures

Wear protective clothing. Move unprotected persons to a safe place.

6.2. Environmental precautions

Prevent from reaching sewage system or water courses.

In the event of leakage into water course or sewage system inform competent authorities. Do not allow entering sewage system /surface water /ground water.

6.3. Methods and materials for containment and cleaning up

Ensure adequate ventilation. Do not wash with water or water based cleaning agents. Disposal considerations – see section 13 of the Sheet.

6.4. Reference to other sections

Information on safe handling – see Section 7 of the Sheet. Information on personal protective measures – see section 8 of the Sheet.

Information on disposal – see Section 13 of the Sheet.

SECTION 7: HANDLING AND STORAGE OF SUBSTANCES AND MIXTURES

7.1. Precautions for safe handling*:

Ensure good ventilation / exhaustion at the workplace.

Information about fire and explosion protection:

Do not spray towards flames or over glowing material. Keep ignition sources away– do not smoke. Take precautionary measures against static discharges.

Warning: Pressurized container. Protect from sunlight and temperatures above 50°C. Do not open violently and do not burn even after use.

7.2. Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

Keep cool. Observe regulations concerning the storage of pressurized gas tanks.

Information about common storage:

Observe regulations concerning the storage of pressurized gas tanks.

Further information about storage conditions*:

Store in well-sealed barrels in a cool and dry place. Protect against heat and direct sunlight.

7.3. Special end use (s)

No further relevant data available.

ML SPRAY - ANTI CORROSION AGENT

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION MEASURES

8.1. Control parameters

Components with limit values that require monitoring depending on the workplace	
106-97-8	butane (1,3 Butadiene <0,1%)
MPC	MPIC: 3000 mg/m ³ MPC: 1900 mg/m ³
74-98-6	Propane
MPC	MPC: 1800 mg/m ³
75-28-5	isobutane *
TLV	MPC: 1900 mg/m ³ , 800 ppm Additional information in section 3 of this sheet.
111-76-2	2-butoxyethanol
MPC	MPIC: 200 mg/m ³ , MPC: 98 mg/m ³ , skin*

DNEL values:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane		
Oral	DNEL Long term systemic	699 mg/kg bw/day (Consumer)
Dermal	DNEL Long term systemic	699 mg/kg bw/day (Consumer)
Inhalation:	DNEL Long term systemic	773 mg/kg bw/day (Worker) 608 mg/m ³ (Consumer) 2035 mg/m ³ (Worker)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics		
Oral	DNEL Long term systemic	125 mg/kg bw/day (Consumer)
Dermal	DNEL Long term systemic	125 mg/kg bw/day (Consumer)
Inhalation:	DNEL Long term systemic	208 mg/kg bw/day (Worker) 185 mg/m ³ (Consumer) 871 mg/m ³ (Worker)
Reaction mass of ethylbenzene and xylene *		
Oral	DNEL Long term systemic	1.6 mg/kg bw/ day (Consumer)
Dermal	DNEL Long term systemic	108 mg/kg bw/day (Consumer)
Inhalation:	DNEL Acute systemic DNEL Long term systemic DNEL Long term local	180 mg/kg bw/day (Worker) 174 mg/m ³ (Consumer) 289 mg/m ³ (Worker) 289 mg/m ³ (Worker) 14.8 mg/m ³ (Consumer) 77 mg/m ³ (Worker) 174 mg/m ³ (Consumer) 221 mg/m ³ (Worker)
Hydrocarbons, C9, aromatic hydrocarbons		
Oral	DNEL Long term systemic	11 mg/kg bw/day (Consumer)
Dermal	DNEL Long term systemic	11 mg/kg bw/day (Consumer)
Inhalation:	DNEL Long term systemic	25 mg/kg bw/day (Worker) 32 mg/m ³ (Consumer) 100 mg/m ³ (Worker)
Sulfonic acids, petroleum, sodium salts*		
Oral	DNEL Long term systemic	0.833 mg/kg bw/ day (Consumer)
Dermal	DNEL Long term systemic	1.667 mg/kg bw/ day (Consumer)
Inhalation:	DNEL Long term systemic	3.33 mg/kg bw/day (Worker) 0.33 mg/m ³ (Consumer) 0.66 mg/m ³ (Worker)

PNEC values*:

Product of reaction mass of ethylbenzene and xylene	
PNEC Fresh water	0.327 mg/l (Undefined)
PNEC Marine water	0.327 mg/l (Undefined)
PNEC fresh water sediment	12.64 mg/l (dry mass) (Undefined)
PNEC Soil	2.31 mg/kg (Undefined)
PNEC Sewage Treatment Plant	6,58 mg/l (Undefined)
PNEC Sea water sediment	12.64 mg/l (dry mass) (Undefined)

Additional information: The currently valid lists were used as basis.

8.2. Exposure control

Technical control measures*:

No further data, see section 7.

Personal protective measures:

General measures of protection and hygiene:

Keep away from foodstuffs, beverages and feed. Immediately take off all soaked and contaminated clothing. Wash hands before each break and at the end of work. Do not breathe gases/ vapours / spray. Avoid contact with skin. Avoid contact with eyes and skin. General ventilation*.

Respiratory protection*:

In case of insufficient ventilation use respiratory protection. Filter A2/P2.

ML SPRAY - ANTI CORROSION AGENT

Hands protection:



Protective gloves

Solvent resistant gloves.

Selection of the glove material on consideration of the breakthrough times, rates of diffusion and degradation.

Penetration time of the glove material:

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 mixture consisting of several substances the resistance of the materials from which the gloves are made cannot be calculated in advance and should therefore be checked before use.

Nitrile rubber.

Recommended thickness of the material: ≥ 0.5 mm

Penetration time of the glove material::

For continuous contact, it is recommended to use gloves with a tensile strength of not less than 240 minutes, with a penetration time of more than 480 minutes as priority. We recommend the same for short-term works or protection against splash. We understand that gloves that offer this level of protection may not be in stock. In this case, a shorter breakthrough time is acceptable in the procedures governing maintenance and as long as the timely replacements are respected. The thickness of the glove is not a good measure of the glove's resistance to chemicals as it depends on the exact composition of the glove material. *

Information about the penetration time of the substance should be obtained from the glove manufacturer and has to be observed.

Eyes protection:



Protective glasses (EN-166)

Body protection:

Use protective clothing (EN-13034/6).

It is recommended to use antistatic, chemical and oil-resistant clothing as well as safety shoes. (EN1149); EN340&EN ISO 13688; 13034-6). *

Environmental control*:

Use an appropriate container to prevent environmental contamination.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties*

Appearance:

Form: aerosol
Colour: according to specification
Odour: characteristic
Odour threshold: not specified

Change of state:

Melting /freezing point: not specified
Initial Boiling point or initial boiling point and boiling range*: -44.5°C
Flammability of materials: Not applicable.

Explosion limits:

Bottom: 0.6 Vol %
Top: 10.9 Vol %

Flash point:

Auto ignition point: -97°C
pH-value: >200°C*
The mixture is non-polar / aprotic*

Viscosity:

Dynamic: not specified
Kinetic: ≤ 20.5 mm²/s, 40°C (L)*

Solubility in/miscibility with:

Water: Not miscible or difficult to mix.
n-octanol/water partition coefficient (log value*): not specified.

Vapour pressure at 20 °C:

Vapour pressure at 50 °C*: 4100 hPa *
7500 hPa

Density at 20°C:

Relative density: 0.669 g/cm³*
Vapour density: Not specified
not specified

ML SPRAY - ANTI CORROSION AGENT

9.2. Other information*

Form:	Aerosol
Important information on health and environment protection and safety:	
Ignition temperature:	The product is not self-igniting*
Explosive properties:	The product is not explosive, but may form explosive mixtures with air.
Organic solvents:	83.3 % (VOC) *
Water*:	0.1 %
Solids content:	13.5%.
Evaporation rate:	Not applicable.
Information with regard to physical hazard classes*:	
Explosives	none
Flammable gases	none
Aerosols	Extremely flammable aerosol. Container under pressure: may explode if heated.
Oxidising gases	none
Gases under pressure	none
Flammable liquids	none
Flammable solids	none
Self-reactive substances and mixtures	none
Pyrophoric liquids	none
Pyrophoric solids	none
Self-heating substances and mixtures	none
Substances and mixtures which emit flammable gases in contact with water	none
Oxidizing liquids	none
Oxidising solids	none
Organic peroxides	none
Corrosive to metals	none
Desensitised explosives	none

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No further relevant data available.

10.2. Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used as intended.

10.3. Possibility of hazardous reactions

Hazardous reactions unknown.

10.4. Conditions to be avoided

No further relevant data available.

10.5. Incompatible materials

No further relevant data available.

10.6. Hazardous decomposition products

Hazardous decomposition products unknown.

SECTION 11: TOXICOLOGICAL INFORMATION

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

Acute toxicity:

Based on available data, the classification criteria are not met.

ATE (Estimated acute toxicity)*:

ATE skin	11204 mg/kg
ATE inhalation	112 mg/l

Relevant classified LD/LC50 values:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

LD50 (rat, oral)	>5840 mg/kg
LD50 (rabbit, skin)	> 2920 mg/kg
LC50 (rat, inhalation)	> 25 mg/l

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

LD50 (rat, oral)	>5000 mg/kg (Acute Dermal Toxicity)
LD50 (rabbit, skin)	3160 mg/kg (Acute Dermal Toxicity) *
LC50/4h (rat, inhalation)	>4951 mg/l *
LC50/4h (rat, inhalation)	4951 mg/m ³

ML SPRAY - ANTI CORROSION AGENT

Reaction mass of ethylbenzene and xylene*

LD50 (rat, oral)	3523 mg/kg
LD50 (rabbit, skin)	12126 mg/kg
LC50/4h (rat, inhalation)	29000 mg/l

Hydrocarbons, C9, aromatic hydrocarbons

LD50 (rat, oral)	3492 mg/kg*
LD50 (rabbit, skin)	>3160 mg/kg
LC50/4h (rat, inhalation)*	>6193 mg/l (Acute Dermal Toxicity)

Sulfonic acids, petroleum, sodium salts

LD50 (rat, oral)	>6000 mg/kg
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Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes eye irritation. *

Allergic effect on airways or skin: Based on available data, the classification criteria are not met.

Carcinogenicity, Mutagenicity and Reproductive Toxicity (CMR):

Mutagenic effect on germ cells: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Harmful effect on reproduction: Based on available data, the classification criteria are not met.

Specific target organ toxicity – single exposure: May cause drowsiness or dizziness.

Specific target organ toxicity – repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: May be fatal if swallowed and enters airways.

11.2. Information on other hazards*

Endocrine disrupting properties: None of the components are listed.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

NOELR (72 h)	3 mg/l	(<i>Pseudokirchneriella subcapitata</i>)
EL50(48 h)	3 mg/l	(Dm)
EL50 (72 h)	30-100 mg/l	(<i>Pseudokirchneriella subcapitata</i>)
LL50 (96 h)	11.4 mg/l	(<i>Oncorhynchus mykiss</i>)
NOEC (21 days)	0.17 mg/l	(Dm)
LOEC (21 days)	0.32 mg/l	(Dm)

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

EL50 (48 h)	1000 mg/l	(Dm)
NOELR (72 h)	100 mg/l	(<i>Pseudokirchneriella subcapitata</i>)
EL50 (72 h)	>1000 mg/l	(<i>Pseudokirchneriella subcapitata</i>)
LL50 (96 h)	>1000 mg/l	(<i>Oncorhynchus mykiss</i>)

Reaction mass of ethylbenzene and xylene*

NOEC	1.3 mg/l (fish)
NOEC (7 days)	0.96 mg/l (Daphnia magna)
NOEC (72h)	0.44 mg/l (Algae)
NOEC (28 days)	16 mg/l (Bacteria)
LC50 (96h)	8.9-16.4 mg/l (Pimephales promelas)
EC50 (48h)	3.2-9.5 mg/l (Daphnia magna)

Hydrocarbons, C9, aromatic hydrocarbons

NOELR (72 h)	1 mg/l	(<i>Pseudokirchneriella subcapitata</i>)
EL50 (48 h)	3.2 mg/l	(Dm)
LL50 (96 h)	9.2 mg/l	(<i>Oncorhynchus mykiss</i>)

12.2 Persistence and degradability

Not easily biodegradable. *

12.3. Bioaccumulative potential

No further relevant data available.

12.4. Mobility in soil

No further relevant data available. *

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6. Endocrine disrupting properties*

The product does not contain substances with endocrine disrupting properties.

ML SPRAY - ANTI CORROSION AGENT

12.7. Other hazardous effects*

Warning: Hazardous for fish.

Further ecological information:

General information:

Water hazard class 2 (Self-assessment): hazardous to water

Do not allow the product to reach ground water, surface water or sewage system. Dangerous to drinking water if even small quantities leak into the ground. Harmful to aquatic life.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Must not be disposed together with household garbage. Prevent from reaching sewage system.

European waste catalogue*:

08 02 99 Wastes not otherwise specified.

HP3 Flammable *

HP4 Irritating - causing skin irritation and eye damage. *

HP14 Ecotoxic. *

Contaminated packaging:

Recommendation: Dispose of according to applicable regulations

SECTION 14: TRANSPORT INFORMATION

14.1. UN number or ID number*

ADR, ADN, IMDG, IATA

UN 1950

14.2. UN proper shipping name

ADR, ADN

UN1950 AEROSOLS*

IMDG

AEROSOLS*

IATA

AEROSOLS, flammable

14.3. Transport hazard class (-es)

ADR



Class 2.5F gases
Label 2.1

ADN

Class ADN/R: 2.5F

IMDG, IATA



Class 2.1
Label 2.1

14.4. Packaging group

None.

14.5. Environmental hazards

Marine pollutants: Yes *

14.6. Special precautions for users

Warning: gases

Kemler's code:

EMS Number:

Stowage Code

-
F-D,S-U

SW1 Protected from heat sources.

SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A.

For AEROSOLS with a capacity above 1 litre: Category B.

For WASTE AEROSOLS: Category C, Clear of living quarters.

SG69

For AEROSOLS with a maximum capacity of 1 litre: Segregation as for Class 9.

Stow "separated from" "class 1 except for division 1.4.

Segregation Code

ML SPRAY - ANTI CORROSION AGENT

For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate division of class 2.
For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

14.7. Sea transport in bulk in accordance with IMO instruments*

Not applicable.

Transport/ further information:

ADR

Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
Tunnel restriction code	D

IMDG

Limited Quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity

"UN Model Regulation" 1950 AEROSOLS, 2.1 ENVIRONMENTALLY HAZARDOUS

SECTION 15: REGULATORY INFORMATION

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

Council Directive 2012/18/EU:
Indicated dangerous components- ANNEX I None of the components is listed.

Seveso category:
P3a FLAMMABLE AEROSOLS
Qualifying quantity (tonnes) for the application of lower-tier requirements: 150t
Qualifying quantity (tonnes) for the application of upper-tier requirements: 500t
Regulation (EC) no 1907/2006 ANNEX XVII Restriction conditions: 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 components is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit for the purpose of licensing according to Article 5 item 3)*: None of the components are listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS*: None of the components are listed.

Regulation (EC) No. 273/2004 on drug precursors*: none of the components are 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 components are listed.

National regulations:

Class	share %
NK 75-< 100	

VOC-CH	83.34 % *
VOC-EU	557.5 g/l *

Danish MAL Code 4-3*

15.2. Chemical safety assessment

Chemical safety assessment has not been performed.

SECTION 16: OTHER INFORMATION

This information is based on our present knowledge; however it does not definitively define the production characteristics and cannot be used as a justification for valid contracts.

Relative phrases:

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure: may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure. *
H411	Toxic to aquatic life with long-lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking. *

ML SPRAY - ANTI CORROSION AGENT

Classification according to the Regulation (EC) no 1272/2008*:

PHYSICAL AND CHEMICAL PROPERTIES: The classification is based on the results of the mixtures tested. Health hazards,
Environmental hazards: The method of classification of mixtures based on the constituents of the mixture (sum formula).

Explanation of abbreviations and acronyms:

RID:	Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail).
ICAO:	International Civil Aviation Organisation.
ADR:	Accord européen sur le transport 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 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).
MAL-Code:	Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labelling concerning inhalation hazards, Denmark.)
DNEL:	Derived No-Effect Level (REACH).
PNEC:	Derived No-Effect Concentration (REACH). *
LC50:	Lethal concentration, 50 percent LD50: Lethal dose, 50 percent.
LD50:	Lethal dose, 50 percent. *
PBT:	Persistent, Bioaccumulative and Toxic.
vPvB:	Very Persistent and very Bioaccumulative.
Flam. Gas 1A:	Flammable Gases - Category 1A.
Aerosol 1:	Aerosols - Category 1.
Press. Gas (Comp):	Gases under pressure - Compressed gas.
Flam. Liq. 2:	Flammable liquids - Category 2.
Flam. Liq. 3:	Flammable liquids - Category 3.
Acute Tox. 4:	Acute toxicity - Category 4.
Skin Irrit. 2:	Skin corrosion/irritation - Category 2.
Eye Irrit. 2:	Serious eye damage/eye irritation - Category 2.
STOT SE 3:	Specific target organ toxicity (single exposure) - Category 3.
STOT RE 2:	Specific target organ toxicity (repeated exposure) - Category 2. *
Asp. Tox. 1:	Aspiration hazard - Category 1.
Aquatic Chronic 2:	Hazardous to the aquatic environment- long-term hazard to the aquatic environment - Category 2.
Aquatic Chronic 3:	Hazardous to the aquatic environment - long-term hazard to the aquatic environment - Category 3.*

Changes in the Sheet:

Update of sections:

9: rewording of sub-section 9.1: Information on basic physical and chemical properties

11: rewording of sub-section 11.1: Information on the hazard classes defined in Regulation (EC) No 1272/ 2008: added subsection

11.2. Information on other hazards

12: new subsection 12.6: Endocrine disrupting properties.

14: rewording of sub-section 14.1: UN number or ID number; rewording of sub-section 14.7: Sea transport in bulk in accordance with IMO instruments.

Changes in the content of sections:

1.1, 1.2, 2.1, 2.2, 2.3, 3.2, 7.1, 7.2, 7.3, 8.1, 8.2, 9.1, 9.2, 11.1, 11.2, 12.1, 12.2, 12.4, 12.6, 12.7, 13.1, 14.1, 14.2, 14.5, 14.7, 15.1, 16.

General update.

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