Supergrind Plus

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Reference number: 21512
Issue date: 15/09/2023 Revision date: 16/05/2024 Supersedes version of: 15/09/2023 Version: 2.0

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

1.1. Product identifier

Product form	:	Mixture
Product name	:	Supergrind Plus
Product code	:	7181
Type of product	:	Metal Working Fluid - Water Soluble
Product group	:	Trade product

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

1.2.1. Relevant identified uses

Main use category	:	Industrial use,Professional use
Function or use category	:	Metalworking Fluid

Title	Life cycle stage	Use descriptors
(Industrial) Handling and dilution of metalworking fluid concentrates	Industrial, Professional	SU3, PC25, PROC5, PROC8b, ERC2

Full text of use descriptors: see section 16

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer
Morris Lubricants
Castle Foregate
SY1 2EL Shrewsbury, Shropshire
United Kingdom
T +44 (0) 1743 232200
sds@morris-lubricants.co.uk

1.4. Emergency telephone number

Emergency number	:	+44 (0) 1743 232200 08.45 - 17.00 GMT

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 1, Sub-Category 1B	H314
Serious eye damage/eye irritation, Category 1	H318
Skin sensitisation, Category 1	H317
Hazardous to the aquatic environment – Chronic Hazard, Category 3	H412

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

May cause respiratory irritation. Causes severe skin burns and eye damage. Causes serious eye damage. Very toxic to aquatic life.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :

GHS05 GHS07

Signal word (CLP) : Danger

Contains : Monoisopropanolamine; 1,2-benzisothiazol-3(2H)-one

Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) : P264 - Wash hands thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear protective clothing, eye protection, face protection.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P501 - Dispose of contents and container to a hazardous or special waste collection point.

EUH-statements : EUH070 - Toxic by eye contact.

2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2,2 Nitrilotriethanol substance with national workplace exposure limit(s) (NO)	CAS-No.: 102-71-6 EC-No.: 203-049-8 REACH-no: 01-2119486482-31	≥ 5 – < 10	Acute Tox. 4 (Dermal), H312 (ATE=2000 mg/kg bodyweight)
Monoisopropanolamine	CAS-No.: 78-96-6 EC-No.: 201-162-7 EC Index-No.: 603-082-00-1 REACH-no: 01-2119475331-43	≥ 5 – < 10	Skin Corr. 1B, H314 Aquatic Chronic 3, H412
Glycerine substance with national workplace exposure limit(s) (GB)	CAS-No.: 56-81-5 EC-No.: 200-289-5	≥ 1 – < 5	Acute Tox. 2 (Oral), H300 (ATE=27 mg/kg bodyweight)

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1,2-benzisothiazol-3(2H)-one	CAS-No.: 2634-33-5 EC-No.: 220-120-9 EC Index-No.: 613-088-00-6 REACH-no: 01-2120761540-60	≥ 0.1 – < 1	Acute Tox. 4 (Oral), H302 (ATE=1020 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400
Pyridine-2-thiol 1-oxide, sodium salt	CAS-No.: 3811-73-2 EC-No.: 223-296-5 EC Index-No.: 613-344-00-7 REACH-no: 01-2119493385-28	≥ 0.1 – < 1	Acute Tox. 4 (Oral), H302 (ATE=1208 mg/kg bodyweight) Acute Tox. 3 (Dermal), H311 (ATE=300 mg/kg bodyweight) Acute Tox. 4 (Inhalation), H332 (ATE=0.00108 mg/l/4h) Acute Tox. 1 (Inhalation:dust,mist), H330 (ATE=0.00108 mg/l/4h) Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=10) EUH070
Sodium Hydroxide substance with national workplace exposure limit(s) (GB, NO)	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6 REACH-no: 01-2119457892-27	≥ 0.1 – < 1	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318

Specific concentration limits:		
Name	**Product identifier**	**Specific concentration limits (%)**
1,2-benzisothiazol-3(2H)-one	CAS-No.: 2634-33-5 EC-No.: 220-120-9 EC Index-No.: 613-088-00-6 REACH-no: 01-2120761540-60	(0.05 ≤ C ≤ 100) Skin Sens. 1, H317
Sodium Hydroxide	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6 REACH-no: 01-2119457892-27	(0.5 ≤ C < 2) Skin Irrit. 2, H315 (0.5 ≤ C < 2) Eye Irrit. 2, H319 (2 ≤ C < 5) Skin Corr. 1B, H314 (5 ≤ C ≤ 100) Skin Corr. 1A, H314

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.

First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately. If 'in use' metalworking fluid emulsion give rise to irritation or skin rashes, possible contamination and/or usage conditions may need to be investigated.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately. Product contains petroleum based material, which, if aspirated into the lungs may result in chemical pneumonia. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. If aspiration into lungs occurs,admit to hospital immediately.

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

Symptoms/effects after inhalation : May cause respiratory irritation.
Symptoms/effects after skin contact : Burns.
Symptoms/effects after eye contact : Serious damage to eyes.
Symptoms/effects after ingestion : Burns.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. P260 - Do not breathe vapours, spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.
Methods for cleaning up : Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. P260 - Do not breathe vapours, spray. Wear personal protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Storage temperature : 5 – 25 °C

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Glycerine (56-81-5)	
United Kingdom - Occupational Exposure Limits	
Local name	Glycerol
WEL TWA (OEL TWA)	10 mg/m³ mist
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

Sodium Hydroxide (1310-73-2)	
United Kingdom - Occupational Exposure Limits	
Local name	Sodium hydroxide
WEL STEL (OEL STEL)	2 mg/m³
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

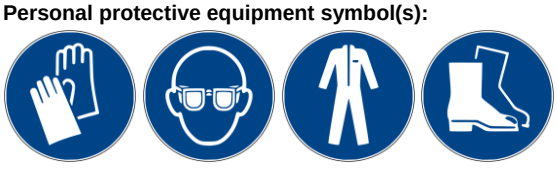
8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:
Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:
Safety glasses

8.2.2.2. Skin protection

Skin and body protection:
Wear suitable protective clothing

Skin and body protection	
Type	**Standard**
Chemically resistant protective gloves, Safety shoes	

Hand protection:
Protective gloves

Hand protection					
Type	**Material**	**Permeation**	**Thickness (mm)**	**Penetration**	**Standard**
Disposable gloves	Nitrile rubber (NBR), Polyvinylchloride (PVC)	3 (> 60 minutes)			

8.2.2.3. Respiratory protection

Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:
Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	Orange. Yellow.
Appearance	:	Fluid.
Odour	:	Not available
Odour threshold	:	Not available
Melting point	:	Not applicable
Freezing point	:	Not available
Boiling point	:	Not available
Flammability	:	Non flammable.
Lower explosion limit	:	Not available
Upper explosion limit	:	Not available
Flash point	:	> 100 °C Pensky-Martens closed cup.
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
pH	:	9.8
pH solution concentration	:	3 %
Viscosity, kinematic @ 40°C	:	2 mm²/s
Solubility	:	Not available
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Vapour pressure	:	Not available
Vapour pressure at 50°C	:	Not available
Density	:	Not available
Relative density	:	1.081
Relative vapour density at 20°C	:	Not available
Particle characteristics	:	Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified.
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) :

Monoisopropanolamine (78-96-6)	
LD50 oral rat	2813 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other:

2,2 Nitrilotriethanol (102-71-6)	
LD50 oral rat	4200 – 11300 mg/kg
LD50 dermal rabbit	2000 mg/kg

Glycerine (56-81-5)	
LD50 oral rat	27 mg/kg bodyweight Animal: rat, Animal sex: female

Sodium Hydroxide (1310-73-2)	
LD50 dermal rabbit	325 mg/kg ECHA

1,2-benzisothiazol-3(2H)-one (2634-33-5)	
LD50 oral rat	1020 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

Pyridine-2-thiol 1-oxide, sodium salt (3811-73-2)	
LD50 oral rat	1208 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: EU Method B.1 (Acute Toxicity (Oral))
LC50 Inhalation - Rat	1.08 mg/m³ Animal: rat, Guideline: EPA OPP 81-3 (Acute inhalation toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation))

Skin corrosion/irritation : Causes severe skin burns.
pH: 9.8

2,2 Nitrilotriethanol (102-71-6)	
pH	10.5

Serious eye damage/irritation : Causes serious eye damage.
pH: 9.8

2,2 Nitrilotriethanol (102-71-6)	
pH	10.5

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

2,2 Nitrilotriethanol (102-71-6)	
IARC group	3 - Not classifiable

Reproductive toxicity : Not classified

1,2-benzisothiazol-3(2H)-one (2634-33-5)	
NOAEL (animal/female, F0/P)	112 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EPA OPPTS 870.3800 (Reproduction and Fertility Effects)
NOAEL (animal/female, F1)	56.6 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EPA OPPTS 870.3800 (Reproduction and Fertility Effects)

Pyridine-2-thiol 1-oxide, sodium salt (3811-73-2)	
LOAEL (animal/male, F0/P)	2.8 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EPA OPPTS 870.3800 (Reproduction and Fertility Effects)
LOAEL (animal/female, F0/P)	1.4 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EPA OPPTS 870.3800 (Reproduction and Fertility Effects)
LOAEL (animal/male, F1)	2.8 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EPA OPPTS 870.3800 (Reproduction and Fertility Effects)
LOAEL (animal/female, F1)	1.4 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EPA OPPTS 870.3800 (Reproduction and Fertility Effects)
NOAEL (animal/male, F0/P)	1.4 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EPA OPPTS 870.3800 (Reproduction and Fertility Effects)
NOAEL (animal/female, F0/P)	0.7 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EPA OPPTS 870.3800 (Reproduction and Fertility Effects)
NOAEL (animal/male, F1)	1.4 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EPA OPPTS 870.3800 (Reproduction and Fertility Effects)
NOAEL (animal/female, F1)	0.7 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EPA OPPTS 870.3800 (Reproduction and Fertility Effects)

STOT-single exposure : Not classified

Monoisopropanolamine (78-96-6)	
LOAEL (oral, rat)	< mg/kg bodyweight

STOT-repeated exposure : Not classified

Monoisopropanolamine (78-96-6)	
NOAEL (oral, rat, 90 days)	≤ mg/kg bodyweight/day

Pyridine-2-thiol 1-oxide, sodium salt (3811-73-2)	
LOAEL (oral, rat, 90 days)	1.5 mg/kg bodyweight
NOAEL (oral, rat, 90 days)	0.5 mg/kg bodyweight

Aspiration hazard : Not classified

Supergrind Plus	
Viscosity, kinematic @ 40°C	2 mm²/s

Monoisopropanolamine (78-96-6)	
Viscosity, kinematic @ 40°C	31.458 mm²/s

Pyridine-2-thiol 1-oxide, sodium salt (3811-73-2)	
Viscosity, kinematic @ 40°C	6.687 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short–term (acute) : Not classified

Hazardous to the aquatic environment, long–term (chronic) : Harmful to aquatic life with long lasting effects.

Monoisopropanolamine (78-96-6)	
LC50 - Fish [1]	215 – 464 mg/l Leuciscus idus
LC50 - Fish [2]	> 1000 mg/l Leuciscus idus
EC50 - Crustacea [1]	108.82 mg/l Daphnia magna
EC50 72h - Algae [1]	32.7 mg/l Desmodesmus subspicatus (Scenedesmus subspicatus)
NOEC (chronic)	< 1 mg/l Daphnia magna
NOEC chronic fish	> 1 mg/l

2,2 Nitrilotriethanol (102-71-6)	
LC50 - Fish [1]	11800 mg/l
EC50 - Crustacea [1]	609.98 mg/l
ErC50 algae	169 mg/l

Glycerine (56-81-5)	
LC50 - Fish [1]	54000 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)

Sodium Hydroxide (1310-73-2)	
LC50 - Fish [1]	125 mg/l
EC50 - Crustacea [1]	40.4 mg/l ECHA

1,2-benzisothiazol-3(2H)-one (2634-33-5)	
LC50 - Fish [1]	2.18 mg/l ECHA
LC50 - Fish [2]	2.15 mg/l Oncorhynchus mykiss
EC50 - Crustacea [1]	2.94 mg/l ECHA
EC50 - Crustacea [2]	2.9 mg/l Daphnia magna

Pyridine-2-thiol 1-oxide, sodium salt (3811-73-2)	
LC50 - Fish [1]	7.3 µg/l Oncorhynchus mykiss
EC50 - Crustacea [1]	0.6 mg/l Daphnia magna
EC50 72h - Algae [1]	0.22 mg/l Desmodesmus subspicatus

12.2. Persistence and degradability

Supergrind Plus	
Persistence and degradability	Not established.

Monoisopropanolamine (78-96-6)	
Persistence and degradability	Not rapidly degradable

2,2 Nitrilotriethanol (102-71-6)	
Persistence and degradability	Not rapidly degradable

Glycerine (56-81-5)	
Persistence and degradability	Not rapidly degradable

Sodium Hydroxide (1310-73-2)	
Persistence and degradability	Not rapidly degradable

1,2-benzisothiazol-3(2H)-one (2634-33-5)	
Persistence and degradability	Not rapidly degradable

Pyridine-2-thiol 1-oxide, sodium salt (3811-73-2)	
Persistence and degradability	Not rapidly degradable

12.3. Bioaccumulative potential

Monoisopropanolamine (78-96-6)	
Partition coefficient n-octanol/water (Log Kow)	-0.93

2,2 Nitrilotriethanol (102-71-6)	
Partition coefficient n-octanol/water (Log Pow)	-1.59

Sodium Hydroxide (1310-73-2)	
Partition coefficient n-octanol/water (Log Pow)	-3.88 SRC

1,2-benzisothiazol-3(2H)-one (2634-33-5)	
Partition coefficient n-octanol/water (Log Pow)	0.64

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

European List of Waste (LoW, EC 2000/532) : 15 01 10* - packaging containing residues of or contaminated by dangerous substances
13 01 05* - non-chlorinated emulsions

HP Code : HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.
HP8 - "Corrosive:" waste which on application can cause skin corrosion.
HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated for transport				
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Overland transport
Not regulated

Transport by sea
Not regulated

Air transport
Not regulated

Inland waterway transport
Not regulated

Rail transport
Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Contains substance(s) listed on the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items: Triethanolamine (102-71-6)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

A chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes

Section	Changed item	Change	Comments
	Supersedes version of	Added	
	Revision date	Added	
	Transport category (RID)	Removed	
	Tank codes for RID tanks (RID)	Removed	
	Special provisions (RID)	Removed	
	Special packing provisions (RID)	Removed	

Indication of changes			
Section	**Changed item**	**Change**	**Comments**
	Portable tank and bulk container special provisions (RID)	Removed	
	Portable tank and bulk container instructions (RID)	Removed	
	Proper Shipping Name (RID)	Removed	
	Special provisions for carriage – Packages (RID)	Removed	
	Special provisions for carriage - Loading, unloading and handling (RID)	Removed	
	Packing instructions (RID)	Removed	
	Packing group (RID)	Removed	
	Mixed packing provisions (RID)	Removed	
	Limited quantities (RID)	Removed	
	Hazard identification number (RID)	Removed	
	Excepted quantities (RID)	Removed	
	Colis express (express parcels) (RID)	Removed	
	Classification code (RID)	Removed	
	Limited quantities (ADN)	Removed	
	Danger labels (ADN)	Removed	
	Excepted quantities (ADN)	Removed	
	Equipment required (ADN)	Removed	
	Classification code (ADN)	Removed	
	Carriage permitted (ADN)	Removed	
	Number of blue cones/lights (ADN)	Removed	
	Tank special provisions (IMDG)	Removed	
	Tank instructions (IMDG)	Removed	
	Stowage category (IMDG)	Removed	
	Special provisions (IMDG)	Removed	
	Proper Shipping Name (IMDG)	Removed	
	Limited quantities (IMDG)	Removed	
	IBC packing instructions (IMDG)	Removed	
	Excepted quantities (IMDG)	Removed	
	EmS-No. (Spillage)	Removed	
	EmS-No. (Fire)	Removed	
	Special provisions (IATA)	Removed	
	Proper Shipping Name (IATA)	Removed	
	PCA packing instructions (IATA)	Removed	
	PCA max net quantity (IATA)	Removed	
	PCA limited quantity max net quantity (IATA)	Removed	

Indication of changes			
Section	**Changed item**	**Change**	**Comments**
	PCA Limited quantities (IATA)	Removed	
	PCA Excepted quantities (IATA)	Removed	
	ERG code (IATA)	Removed	
	CAO packing instructions (IATA)	Removed	
	CAO max net quantity (IATA)	Removed	
	Danger labels (IMDG)	Removed	
	Danger labels (IATA)	Removed	
	UN-No. (RID)	Removed	
	Special provisions for carriage - Loading, unloading and handling (ADR)	Removed	
	Special provisions for carriage - Packages (ADR)	Removed	
	Tank code (ADR)	Removed	
	Portable tank and bulk container special provisions (ADR)	Removed	
	Portable tank and bulk container instructions (ADR)	Removed	
	Mixed packing provisions (ADR)	Removed	
	Special packing provisions (ADR)	Removed	
	Packing instructions (ADR)	Removed	
	Vehicle for tank carriage	Removed	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.2	Hazard pictograms (CLP)	Modified	
2.2	Precautionary statements (CLP)	Modified	
2.2	Hazard statements (CLP)	Modified	
3	Composition/information on ingredients	Modified	
5.3	EAC code	Removed	
11.1	ATE CLP (dust,mist)	Added	
11.1	ATE CLP (oral)	Added	
12.1	Ecology - general	Removed	
14.1	UN-No. (ADN)	Removed	
14.1	UN-No. (IMDG)	Removed	
14.1	UN-No. (IATA)	Removed	
14.1	UN-No. (ADR)	Removed	
14.2	Proper Shipping Name (ADN)	Removed	
14.2	Proper Shipping Name (ADR)	Removed	
14.3	Danger labels (RID)	Removed	
14.3	Danger labels (ADR)	Removed	
14.3	Class (ADR)	Removed	

Indication of changes			
Section	**Changed item**	**Change**	**Comments**
14.4	Packing group (ADN)	Removed	
14.4	Packing group (IMDG)	Removed	
14.4	Packing group (IATA)	Removed	
14.4	Packing group (ADR)	Removed	
14.6	Special provisions (ADN)	Removed	
14.6	Special packing provisions (IMDG)	Removed	
14.6	Packing instructions (IMDG)	Removed	
14.6	Transport category (ADR)	Removed	
14.6	Special provisions (ADR)	Removed	
14.6	Excepted quantities (ADR)	Removed	
14.6	Limited quantities (ADR)	Removed	
14.6	Tunnel restriction code (ADR)	Removed	
14.6	Hazard identification number (Kemler No.)	Removed	
14.6	Classification code (ADR)	Removed	

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development

Abbreviations and acronyms:	
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Other information : The classification in section 2 applies to the undiluted product as supplied. It may not apply when the product is diluted for use at the correct operating strength. USE RESTRICTIONS/CAUTIONARY NOTE: Cemented carbides sometimes referred to as 'Tungsten carbides' or 'Hard Metals' contains significant quantities of cobalt or nickel and sometimes chromium and other transition metals. This product is NOT inhibited to prevent potentially hazardous levels of dissolved Cobalt and other transition metals being produced by the grinding of 'Hard metals'.

Full text of H- and EUH-statements:	
Acute Tox. 1 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 1
Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
EUH070	Toxic by eye contact.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H290	May be corrosive to metals.
H300	Fatal if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.

Full text of H- and EUH-statements:	
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1

Full text of use descriptors	
ERC2	Formulation into mixture
PC25	Metal working fluids
PROC5	Mixing or blending in batch processes
PROC8b	Transfer of substance or mixture (charging and discharging) at dedicated facilities
SU3	Industrial uses: Uses of substances as such or in preparations at industrial sites

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.