

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form	: Mixture
Product name	: CIMSTAR® 620FF
UFI	: SVKX-P85W-0004-XYEA
Product code	: C29540
Type of product	: Water miscible metalworking fluid
Product group	: Trade product

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

Main use category	: Industrial use
Use of the substance/mixture	: Metal working fluids
Use of the substance/mixture	: Use only as recommended on the product application sheet. More information can be found on: www.atiel.org/reach/introduction .

1.3. Details of the supplier of the safety data sheet**Supplier**

Cimcool Industrial Products B.V.

Schiedamsedijk 20

NL 3134 KK Vlaardingen

The Netherlands

T + 31 (0)10 4600660

SDS@DuBoisChemicals.com, www.cimcool.com

E-mail address of competent person responsible for the SDS :

SDS@DuBoisChemicals.com**Manufacturer**

Cimcool Industrial Products B.V.

Schiedamsedijk 20

NL 3134 KK Vlaardingen

The Netherlands

T + 31 (0)10 4600660

SDS@DuBoisChemicals.com, www.cimcool.com

E-mail address of competent person responsible for the SDS :

SDS@DuBoisChemicals.com**1.4. Emergency telephone number**

Emergency number	: + 32 (0)14 58 45 45 (BIG, Belgium) Operating hours 24 hours / 24 hours, 7 days a week
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SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Not classified

Adverse physicochemical, human health and environmental effects

Not applicable.

2.2. Label elements**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

EUH-statements	: EUH070 - Toxic by eye contact. EUH208 - Contains Pyridine-2-thiol 1-oxide, sodium salt, 2-n-butyl-benzo[d]isothiazol-3-one. May produce an allergic reaction.
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2.3. Other hazards

Other hazards which do not result in classification	: Spill area may be slippery. Do not allow material to contaminate ground water system.
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Contains no PBT and/or vPvB substances $\geq 0.1\%$ 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

3.2. Mixtures

Name	Product identifier	Conc. (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), hydrotreated heavy naphthenic; < 3% DMSO substance with a Community workplace exposure limit (Note L)	CAS-No.: 64742-52-5 EC-No.: 265-155-0 EC Index-No.: 649-465-00-7 REACH-no: 01-2119467170-45	20 – 40	Not classified
Poly(oxy-1,2-ethanediyl), a-[(9Z)-2-[(1-oxo-9-octadecen-1-yl)amino]ethyl]-w-hydroxy-	CAS-No.: 26027-37-2 EC-No.: 607-851-2 REACH-no: polymer	1 – 5	Eye Irrit. 2, H319
Alcohols, C16-18 and C18 unsaturated, ethoxylated > 1 < 2.5 EO	CAS-No.: 68920-66-1 EC-No.: 500-236-9 REACH-no: 01-2119489407-26	1 - 2,5	Skin Irrit. 2, H315 Aquatic Chronic 2, H411
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 – 0,5	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Acute Tox. 3 (Dermal), H311 (ATE=300 mg/kg bodyweight) Acute Tox. 3 (Inhalation), H331 (ATE=0,5 mg/l/4h) Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT RE 1, H372 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 2, H411 EUH070
2-n-butyl-benzo[d]isothiazol-3-one	CAS-No.: 4299-07-4 EC-No.: 420-590-7 EC Index-No.: 606-079-00-3 REACH-no: 01-0000016721-74	0,1 – 0,5	Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Comments : For further information refer to section 8, 11, 12

Note L: The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 ("Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions – Dimethyl sulphoxide extraction refractive index method" Institute of Petroleum, London), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

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 : Seek medical attention if ill effect develops.
First-aid measures after inhalation : Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.

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First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Drink promptly large quantities of milk, egg whites, gelatin solutions, or if these are not available, drink large quantities of water.

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

Symptoms/effects after inhalation	: None under normal use.
Symptoms/effects after skin contact	: May cause slight irritation to the skin.
Symptoms/effects after eye contact	: May cause slight irritation.
Symptoms/effects after ingestion	: Ingestion may cause nausea, vomiting and diarrhea.
Chronic symptoms	: Toxic by eye contact. May produce an allergic reaction.

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	: Any fire extinguishing media may be used on nearby fires (water, powder, foam).
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: The product is not flammable.
Hazardous decomposition products in case of fire	: Carbon dioxide. Carbon monoxide. Nitrogen oxides (NOx). Sulphur oxides.

5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Spill area may be slippery.
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For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
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For emergency responders

Protective equipment	: Equip cleanup crew with proper protection.
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6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Sweep or shovel spills into appropriate container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation.
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6.4. Reference to other sections

Section: 1. Emergency contact information. Section: 8. Personal protective equipment. Concerning disposal elimination after cleaning, see section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	: Handle in accordance with good industrial hygiene and safety practice.
Precautions for safe handling	: Provide good ventilation in process area to prevent formation of vapour.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Keep at temperatures between 5°C and 35°C in original container.
Incompatible products	: Strong bases. Strong acids.

7.3. Specific end use(s)

Use only as recommended on the product application sheet.

More information can be found on:

www.hse.gov.uk/metalworking,

www.ukla.org.uk,

www.vsi-schmierstoffe.de.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

Distillates (petroleum), hydrotreated heavy naphthenic; < 3% DMSO (64742-52-5)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	5 mg/m ³ Mineral oil (Mist formation; ACGIH, 8 Hours)

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

For most applications, normal shop ventilation is adequate. However, when high mist levels are generated or where machines are close together, or where ventilation is inadequate, use of splash guards or mist collectors is recommended. Mist levels should comply with local regulations.

Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Eye and face protection

Eye protection:

Use splash goggles when eye contact due to splashing is possible

Eye protection			
Type	Field of application	Characteristics	Standard
Chemical goggles or safety glasses	Droplet, Mist formation		EN 166

Skin protection

Skin and body protection:

Wear suitable protective clothing. Wash contaminated clothes

Hand protection:

Follow Cimcool Skin Protection Plan. In case of repeated or prolonged contact wear gloves. Consider the particular working conditions under which the gloves are being used. The same gloves can be used for the diluted product, if considered necessary.

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Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves, Reusable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0.11		EN ISO 374

Respiratory protection

Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation

Environmental exposure controls

Environmental exposure controls:

Do not discharge into drains or the environment.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: orange.
Odour	: mild.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: < 0 °C (estimated value)
Boiling point	: ≥ 100 °C (estimated value)
Flammability	: Not flammable
Explosive properties	: Not applicable.
Oxidising properties	: Not applicable.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: > 100 °C Because of the presence of water, a flashpoint cannot be measured.
Auto-ignition temperature	: Not applicable (Contains: Water)
Decomposition temperature	: Not applicable
pH	: 9,9 [DIN 51369 (2013); 20°C]
pH solution	: 9,3 @20°C, 5%
Viscosity, kinematic	: 285 mm ² /s [DIN 51562/1 (1999); 20°C]
Solubility	: Miscible with water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Partition coefficient n-octanol/water (Log Pow)	: Not applicable
Vapour pressure	: ≤ 2,33 kPa (Literature data; water, 20°C)
Vapour pressure at 50°C	: Not available
Density	: 1005 kg/m ³ [DIN 51757/7 (2011); 20°C]
Relative density	: Not available
Relative vapour density at 20°C	: Not applicable (Mixture)
Particle characteristics	: Not applicable

9.2. Other information

Other safety characteristics

Additional information : The above data are typical values and do not constitute a specification.

SECTION 10: Stability and reactivity

10.1. Reactivity

None reasonably foreseeable.

10.2. Chemical stability

Stable under normal conditions.

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10.3. Possibility of hazardous reactions

None reasonably foreseeable.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Incompatible with strong acids and oxidizing agents.

10.6. Hazardous decomposition products

None under normal use. See Section 5.

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)	: Not classified
Additional information	: Based on available data, the classification criteria are not met

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))
LD50 dermal rabbit	720 mg/kg
LC50 Inhalation - Rat	1,08 mg/l air Animal: rat, Guideline: EPA OPP 81-3 (Acute inhalation toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation))
LC50 Inhalation - Rat (Dust/Mist)	1,08 mg/l/4h
ATE CLP (oral)	500 mg/kg bodyweight
ATE CLP (dermal)	300 mg/kg bodyweight
ATE CLP (gases)	700 ppmv/4h
ATE CLP (vapours)	3 mg/l/4h
ATE CLP (dust,mist)	0,5 mg/l/4h

Alcohols, C16-18 and C18 unsaturated, ethoxylated > 1 < 2.5 EO (68920-66-1)

LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	> 3000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 1,6 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

Distillates (petroleum), hydrotreated heavy naphthenic; < 3% DMSO (64742-52-5)

LD50 oral rat	> 5000 mg/kg
LD50 oral	15000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LD50 dermal	5000 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	5,53 mg/l Source: ECHA
ATE CLP (dust,mist)	5,53 mg/l/4h

2-n-butyl-benzo[d]isothiazol-3-one (4299-07-4)

LD50 oral rat	4500 mg/kg
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2-n-butyl-benzo[d]isothiazol-3-one (4299-07-4)	
LD50 dermal rat	> 2000 mg/kg
Skin corrosion/irritation	: Not classified pH: 9,9 [DIN 51369 (2013); 20°C]
Additional information	: Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified pH: 9,9 [DIN 51369 (2013); 20°C]
Additional information	: Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified
Additional information	: Level of use, 10% (in water), EUH statements : None
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
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
Additional information	: Based on available data, the classification criteria are not met
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Pyridine-2-thiol 1-oxide, sodium salt (3811-73-2)	
LOAEL (oral, rat, 90 days)	1,5 mg/kg bodyweight Animal: rat, Guideline: other:
NOAEL (oral, rat, 90 days)	0,5 mg/kg bodyweight Animal: rat, Guideline: other:
STOT-repeated exposure	Causes damage to organs (nervous system) through prolonged or repeated exposure.
Alcohols, C16-18 and C18 unsaturated, ethoxylated > 1 < 2.5 EO (68920-66-1)	
NOAEL (oral, rat, 90 days)	≥ 500 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
Distillates (petroleum), hydrotreated heavy naphthenic; < 3% DMSO (64742-52-5)	
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	> 0,98 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)
Aspiration hazard	: Not classified

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Additional information : Based on available data, the classification criteria are not met

CIMSTAR® 620FF	
Viscosity, kinematic	285 mm ² /s [DIN 51562/1 (1999); 20°C]
Pyridine-2-thiol 1-oxide, sodium salt (3811-73-2)	
Viscosity, kinematic	6687 mm ² /s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm ² /s)'
Distillates (petroleum), hydrotreated heavy naphthenic; < 3% DMSO (64742-52-5)	
Viscosity, kinematic	22 mm ² /s

11.2. Information on other hazards

Other information

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

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

Hazardous to the aquatic environment, long-term (chronic) : Not classified

Pyridine-2-thiol 1-oxide, sodium salt (3811-73-2)	
LC50 - Fish [1]	7,3 µg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	0,6 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	0,22 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
ErC50 algae	0,46 mg/l Selenastrum capricornutum (green algae)
NOEC (chronic)	0,00064 mg/l Skeletonema costatum (marine diatom) Read-across – Zinc Pyrithione - Method: OPPTS 850.5400
NOEC chronic algae	0,08 mg/l Pseudokirchneriella subcapitata (green algae)

Alcohols, C16-18 and C18 unsaturated, ethoxylated > 1 < 2.5 EO (68920-66-1)	
LC50 - Fish [1]	108 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	51 mg/l Daphnia magna
EC50 72h - Algae [1]	> 100 mg/l Scenedesmus subspicatus

Distillates (petroleum), hydrotreated heavy naphthenic; < 3% DMSO (64742-52-5)	
LC50 - Fish [1]	5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 - Crustacea [1]	1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 96h - Algae [1]	> 1000 mg/l Source: IUCLID

2-n-butyl-benzo[d]isothiazol-3-one (4299-07-4)	
LC50 - Fish [1]	0,15 mg/l Oncorhynchus mykiss (rainbow trout)
EC50 - Crustacea [1]	0,093 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	0,45 mg/l Pseudokirchneriella subcapitata (green algae)

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12.2. Persistence and degradability

CIMSTAR® 620FF	
Persistence and degradability	This product is not, or does not contain substances which are classified as PBT or vPvB.
Pyridine-2-thiol 1-oxide, sodium salt (3811-73-2)	
Persistence and degradability	This product is not, or does not contain substances which are classified as PBT or vPvB.
Alcohols, C16-18 and C18 unsaturated, ethoxylated > 1 < 2.5 EO (68920-66-1)	
Persistence and degradability	Rapidly degradable
Distillates (petroleum), hydrotreated heavy naphthenic; < 3% DMSO (64742-52-5)	
Persistence and degradability	Not rapidly degradable
Poly(oxy-1,2-ethanediyl), a-[(9Z)-2-[(1-oxo-9-octadecen-1-yl)amino]ethyl]-w-hydroxy- (26027-37-2)	
Persistence and degradability	Rapidly degradable
2-n-butyl-benzo[d]isothiazol-3-one (4299-07-4)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

CIMSTAR® 620FF	
Partition coefficient n-octanol/water (Log Pow)	Not applicable
Bioaccumulative potential	Not established.
Pyridine-2-thiol 1-oxide, sodium salt (3811-73-2)	
Partition coefficient n-octanol/water (Log Pow)	-2,64 @20C; pH 8.5
Distillates (petroleum), hydrotreated heavy naphthenic; < 3% DMSO (64742-52-5)	
Partition coefficient n-octanol/water (Log Pow)	3,9 – 6 Source: IUCLID

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

CIMSTAR® 620FF	
Other information	Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: If pretreatment is needed, chemical emulsion breaking or ultrafiltration may be used. For more information, see 'UKLA-PERA-Best-Practice-Guide-for-the-Disposal-of-Water-mix-Metalworking-Fluids.pdf' on www.ukla.org.uk/wp-content/uploads .
Sewage disposal recommendations	: Do not empty into drains.

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Product/Packaging disposal recommendations	: Recycle the material as far as possible. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.
Ecological waste information	: Avoid release to the environment.
European List of Waste (LoW, EC 2000/532)	: 12 01 09* - machining emulsions and solutions free of halogens This code is applicable for the product as supplied only. The conditions of use may affect the waste classification after use; see Decision 2000/532/EC and its amendments.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA
14.1. UN number or ID number		
Not regulated for transport		
14.2. UN proper shipping name		
Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)		
Not regulated	Not regulated	Not regulated
14.4. Packing group		
Not regulated	Not regulated	Not regulated
14.5. Environmental hazards		
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

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

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 substance(s) listed on the REACH Candidate List < 0.1% or SCL.

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)

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

POP Regulation (Persistent Organic Pollutants)

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

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Seveso Directive (Disaster Risk Reduction)

Seveso Additional information : This product doesn't meet the Seveso Directive definition of dangerous substances and doesn't fall under one of the hazard categories.

Explosives Precursors Regulation (EU 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 (EC 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)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes		
Section	Changed item	Comments
1.1	Product identifier	
1.2	Use of the substance/mixture	Added
2.2	EUH-statements	Modified
4.2	Chronic symptoms	Modified
8.2	Eye protection	Modified

Abbreviations and acronyms:	
ADR	Accord Dangereux Routier (European regulations concerning the international transport of dangerous goods by road)
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
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

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Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Abbreviations and acronyms:

OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H- and EUH-phrases:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
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 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
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
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH070	Toxic by eye contact.
EUH208	Contains Pyridine-2-thiol 1-oxide, sodium salt, 2-n-butyl-benzo[d]isothiazol-3-one. May produce an allergic reaction.

SDS_CIP

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