



SAFETY DATA SHEET

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

1.1. Product identifier

Product name AL - 61

Product number 10142

Synonyms; trade names NALCO 5403

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

Identified uses Corrosion inhibitor.

1.3. Details of the supplier of the safety data sheet

Supplier Univar Solutions UK Ltd
 Aquarius House
 6 Mid Point Business Park
 Bradford
 BD3 7AY
 +44 1274 267300
 +44 1274 267306
 SDS.EMEA@univarsolutions.com

1.4. Emergency telephone number

Emergency telephone SGS - +32 (0)3 575 55 55 (24h)

Sds No. 10142

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Carc. 2 - H351 STOT SE 3 - H336 Asp. Tox. 1 - H304

Environmental hazards Aquatic Chronic 2 - H411

2.2. Label elements

Hazard pictograms



Signal word Danger

Hazard statements

H351 Suspected of causing cancer.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

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Precautionary statements

P202 Do not handle until all safety precautions have been read and understood.
P273 Avoid release to the environment.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P501 Dispose of contents/ container in accordance with national regulations.

Contains HYDROCARBONS C10 AROMATICS >1% NAPHTHALENE, NAPHTHALENE

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

HYDROCARBONS C10 AROMATICS >1% NAPHTHALENE			60-100%
CAS number: —	EC number: 919-284-0	REACH registration number: 01-2119463588-24-XXXX	
Classification Carc. 2 - H351 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411			

NAPHTHALENE			1-5%
CAS number: 91-20-3	EC number: 202-049-5	REACH registration number: 01-2119561346-37-XXXX	
M factor (Acute) = 1	M factor (Chronic) = 1		
Classification Acute Tox. 4 - H302 Carc. 2 - H351 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410			

1,2,4-TRIMETHYLBENZENE			1-5%
CAS number: 95-63-6	EC number: 202-436-9	REACH registration number: 01-2119472135-42-XXXX	
Classification Flam. Liq. 3 - H226 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335 Aquatic Chronic 2 - H411			

The full text for all hazard statements is displayed in Section 16.

Composition comments The data shown are in accordance with the latest EC Directives.

SECTION 4: First aid measures

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4.1. Description of first aid measures

Inhalation	Move affected person to fresh air at once. Keep affected person warm and at rest. Get medical attention immediately.
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention.

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

Inhalation	Vapours may cause headache, fatigue, dizziness and nausea. May cause drowsiness or dizziness.
Ingestion	May be fatal if swallowed and enters airways.
Skin contact	Prolonged contact may cause redness, irritation and dry skin.

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

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards	Oxides of the following substances: Carbon.
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5.3. Advice for firefighters

Protective actions during firefighting	Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage.
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6.2. Environmental precautions

Environmental precautions	Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
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6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Absorb spillage with inert, damp, non-combustible material. Flush contaminated area with plenty of water. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.
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6.4. Reference to other sections

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Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: Handling and storage
7.1. Precautions for safe handling

Usage precautions Read and follow manufacturer's recommendations. Avoid inhalation of vapours/spray and contact with skin and eyes. Keep away from heat, sparks and open flame. Mechanical ventilation or local exhaust ventilation may be required.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Suitable container materials: Mild steel. Stainless steel. Copper. Do not use containers made of the following materials: Neoprene. Butyl rubber. Rubber (natural, latex). Polyethylene.

Storage class Chemical storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection
8.1. Control parameters
Occupational exposure limits
HYDROCARBONS C10 AROMATICS >1% NAPHTHALENE

Vapour

100 mg/m³, 19 ppm, TWA Manuf. data

NAPHTHALENE

Long-term exposure limit (8-hour TWA): WEL 10 ppm(Sk) 53 mg/m³(Sk)

Short-term exposure limit (15-minute): WEL 15 ppm(Sk) 80 mg/m³(Sk)

1,2,4-TRIMETHYLBENZENE

Long-term exposure limit (8-hour TWA): WEL 25 ppm 125 mg/m³

Short-term exposure limit (15-minute): WEL

WEL = Workplace Exposure Limit.

Ingredient comments WEL = Workplace Exposure Limits

HYDROCARBONS C10 AROMATICS >1% NAPHTHALENE
DNEL

Industry - Dermal; : 12.5 mg/kg/day

Industry - Inhalation; : 150 mg/m³

Consumer - Dermal; : 7.5 mg/kg/day

Consumer - Inhalation; : 32 mg/m³

Consumer - Oral; : 7.5 mg/kg/day

1,2,4-TRIMETHYLBENZENE (CAS: 95-63-6)

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DNEL

Workers - Inhalation; Long term systemic effects: 100 mg/m³
 Workers - Inhalation; Short term systemic effects: 100 mg/m³
 Workers - Inhalation; Long term local effects: 100 mg/m³
 Workers - Inhalation; Short term local effects: 100 mg/m³
 Workers - Dermal; Long term systemic effects: 16171 mg/kg/day
 Consumer - Inhalation; Long term systemic effects: 29.4 mg/m³
 Consumer - Inhalation; Short term systemic effects: 29.4 mg/m³
 Consumer - Inhalation; Long term local effects: 29.4 mg/m³
 Consumer - Inhalation; Short term local effects: 29.4 mg/m³
 Consumer - Dermal; Long term systemic effects: 9512 mg/kg/day
 Consumer - Oral; Long term systemic effects: 15 mg/kg/day

PNEC

- Fresh water; 0.12 mg/l
 - marine water; 0.12 mg/l
 - Intermittent release; 0.12 mg/l
 - STP; 2.41 mg/l
 - Sediment (Freshwater); 13.56 mg/kg
 - Sediment (Marinewater); 13.56 mg/kg
 - Soil; 2.34 mg/kg

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

The following protection should be worn: Chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection

The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Nitrile rubber. To protect hands from chemicals, gloves should comply with European Standard EN374.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

Provide eyewash station and safety shower. Wash at the end of each work shift and before eating, smoking and using the toilet. Remove contaminated clothing and wash the skin thoroughly with soap and water after work. Eating, smoking and water fountains prohibited in immediate work area.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. It is recommended to use respiratory equipment with combination filter, type A2/P2. EN 136/140/141/145/143/149

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Dark. Amber.
Odour	Hydrocarbons.
Odour threshold	Data lacking.

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pH	Data lacking.
Melting point	Not applicable.
Pour Point	No information available.
Freezing Point	No information available.
Initial boiling point and range	Data lacking.
Flash point	66°C Pensky-Martens closed cup.
Evaporation rate	Data lacking.
Evaporation factor	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	Data lacking.
Other flammability	No information available.
Vapour pressure	Data lacking.
Vapour density	Data lacking.
Relative density	0.93 @ 15.6°C
Bulk density	No information available.
Solubility(ies)	Insoluble in water.
Partition coefficient	Not known.
Auto-ignition temperature	Data lacking.
Decomposition Temperature	Data lacking.
Viscosity	20 - 40 cSt @ 37.8°C
Explosive properties	Data lacking.
Explosive under the influence of a flame	No information available.
Oxidising properties	Not known.

9.2. Other information

Other information	Not available.
Refractive index	No information available.
Particle size	No information available.
Molecular weight	No information available.
Volatility	No information available.
Saturation concentration	No information available.
Critical temperature	No information available.
Volatile organic compound	No information available.

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

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Reactivity The following materials may react with the product: Strong oxidising agents.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Strong reducing agents. Strong acids.

10.6. Hazardous decomposition products

Hazardous decomposition products Oxides of the following substances: Carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

ATE oral (mg/kg) 10,204.08

Acute toxicity - inhalation

ATE inhalation (gases ppm) 91,836.73

ATE inhalation (vapours mg/l) 224.49

ATE inhalation (dusts/mists mg/l) 30.61

Skin corrosion/irritation

Skin corrosion/irritation No information available.

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

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Data lacking.

Germ cell mutagenicity

Genotoxicity - in vitro Does not contain any substances known to be mutagenic.

Carcinogenicity

Carcinogenicity Suspected of causing cancer.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

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STOT - single exposure Central nervous system depression including narcotic effects such as drowsiness, narcosis, reduced alertness, loss of reflexes, lack of coordination and vertigo.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard May be fatal if swallowed and enters airways.

Inhalation May cause respiratory system irritation. Vapours may cause drowsiness and dizziness.

Ingestion May cause discomfort if swallowed. Drowsiness, dizziness, disorientation, vertigo. May be fatal if swallowed and enters airways.

Skin contact Repeated exposure may cause skin dryness or cracking.

Eye contact Vapour or spray in the eyes may cause irritation and smarting.

Toxicological information on ingredients.**HYDROCARBONS C10 AROMATICS >1% NAPHTHALENE****Acute toxicity - oral**

Acute toxicity oral (LD₅₀ mg/kg) 5,000.0

Species Rat

Notes (oral LD₅₀) OECD 401

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,000.0

Species Rat

Notes (dermal LD₅₀) OECD 402

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 4,688.0

Species Rat

Notes (inhalation LC₅₀) OECD 403

ATE inhalation (vapours mg/l) 4,688.0

Skin corrosion/irritation

Animal data OECD 404 Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Not irritating.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

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Skin sensitisation	- Guinea pig: OECD 406 Not sensitising.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Ames test: Negative.
Genotoxicity - in vivo	Chromosome aberration: Negative. This substance has no evidence of mutagenic properties.
<u>Carcinogenicity</u>	
Carcinogenicity	Suspected of causing cancer.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Multi-generation study - NOAEL 2.74 mg/l, Inhalation, Rat F1
Reproductive toxicity - development	Teratogenicity: - NOAEL: > 450 mg/kg, Oral, Rat This substance has no evidence of toxicity to reproduction.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	No information available.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	NOAEL 300 mg/kg, Oral, Rat
<u>Aspiration hazard</u>	
Aspiration hazard	No information available.
.	
Inhalation	Irritating to respiratory system. Vapours may cause headache, fatigue, dizziness and nausea.
Ingestion	Harmful: may cause lung damage if swallowed.
Skin contact	Irritating to skin. Product has a defatting effect on skin. May cause allergic contact eczema.
Eye contact	Irritating to eyes.

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<u>Acute toxicity - oral</u>	
Notes (oral LD₅₀)	LD ₅₀ 50533 mg/kg, Oral, Mouse
ATE oral (mg/kg)	500.0
<u>Acute toxicity - inhalation</u>	
Notes (inhalation LC₅₀)	LC ₅₀ (4h): > 0.4 mg/l, Inhalation, Vapour, Rat (MAC)
<u>Carcinogenicity</u>	
Carcinogenicity	Suspected of causing cancer.
.	
Inhalation	Irritating to respiratory system.
Ingestion	Harmful if swallowed.
Skin contact	Irritating to skin.

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Eye contact Irritating to eyes.

1,2,4-TRIMETHYLBENZENE**Acute toxicity - inhalation**

ATE inhalation (gases ppm) 4,500.0

ATE inhalation (vapours mg/l) 11.0

ATE inhalation (dusts/mists mg/l) 1.5

SECTION 12: Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

Ecological information on ingredients.**HYDROCARBONS C10 AROMATICS >1% NAPHTHALENE**

Ecotoxicity The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

NAPHTHALENE

Ecotoxicity The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

12.1. Toxicity

Toxicity Toxic to aquatic life.

Ecological information on ingredients.**HYDROCARBONS C10 AROMATICS >1% NAPHTHALENE**

Toxicity Toxic to aquatic life.

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: > 2 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: > 3 mg/l, Daphnia magna

Acute toxicity - aquatic plants NOEC, 72 hours: 2.5 mg/l, Scenedesmus subspicatus

Chronic aquatic toxicity

Chronic toxicity - fish early life stage NOEC, 28 days: 0.487 mg/l, Oncorhynchus mykiss (Rainbow trout)

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 0.851 mg/l, Daphnia magna

NAPHTHALENE**Acute aquatic toxicity**

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

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M factor (Acute)	1
Acute toxicity - fish	LC ₅₀ , 48 hours: 0.96 mg/l,
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 2.16 mg/l, Daphnia magna
<u>Chronic aquatic toxicity</u>	
M factor (Chronic)	1
Chronic toxicity - fish early life stage	NOEC, 40 days: 0.37 mg/l,
Chronic toxicity - aquatic invertebrates	NOEC, : 0.6 mg/l, Daphnia magna

1,2,4-TRIMETHYLBENZENE

<u>Acute aquatic toxicity</u>	
Acute toxicity - fish	LC ₅₀ , 96 hours: 7.72 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 3.6 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability Inherently biodegradable.

Ecological information on ingredients.**HYDROCARBONS C10 AROMATICS >1% NAPHTHALENE**

Persistence and degradability	Inherently biodegradable.
Biodegradation	- Degradation (%) 57.95: 28 days OECD 301F

12.3. Bioaccumulative potential

Bioaccumulative potential	The product contains potentially bioaccumulating substances.
Partition coefficient	Not known.

Ecological information on ingredients.**HYDROCARBONS C10 AROMATICS >1% NAPHTHALENE**

Bioaccumulative potential	The product contains potentially bioaccumulating substances.
Partition coefficient	No information available.

12.4. Mobility in soil

Mobility	The product is immiscible with water and will spread on the water surface.
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Ecological information on ingredients.**HYDROCARBONS C10 AROMATICS >1% NAPHTHALENE**

Mobility	The product is insoluble in water.
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NAPHTHALENE

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Mobility The product is insoluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.**HYDROCARBONS C10 AROMATICS >1% NAPHTHALENE**

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects Not determined.

Ecological information on ingredients.**HYDROCARBONS C10 AROMATICS >1% NAPHTHALENE**

Other adverse effects Not determined.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

General information Do not puncture or incinerate, even when empty. Waste is classified as hazardous waste.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General Wear protective clothing as described in Section 8 of this safety data sheet.

14.1. UN number

UN No. (ADR/RID) 3082

UN No. (IMDG) 3082

UN No. (ICAO) 3082

UN No. (ADN) 3082

14.2. UN proper shipping name

Proper shipping name (ADR/RID) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS HYDROCARBONS C10 AROMATICS >1% NAPHTHALENE, 1,2,4-TRIMETHYLBENZENE)

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS HYDROCARBONS C10 AROMATICS >1% NAPHTHALENE, 1,2,4-TRIMETHYLBENZENE)

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS HYDROCARBONS C10 AROMATICS >1% NAPHTHALENE, 1,2,4-TRIMETHYLBENZENE)

Proper shipping name (ADN) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS HYDROCARBONS C10 AROMATICS >1% NAPHTHALENE, 1,2,4-TRIMETHYLBENZENE)

14.3. Transport hazard class(es)

ADR/RID class 9

ADR/RID classification code M6

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ADR/RID label	9
IMDG class	9
ICAO class/division	9
ADN class	9

Transport labels**14.4. Packing group**

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III
ADN packing group	III

14.5. Environmental hazards**Environmentally hazardous substance/marine pollutant****14.6. Special precautions for user**

EmS	F-A, S-F
ADR transport category	3
Emergency Action Code	•3Z
Hazard Identification Number (ADR/RID)	90
Tunnel restriction code	(-)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). 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 (as amended). Commission Regulation (EU) No 2015/830 of 28 May 2015. This product may impact SEVESO storage regulations.
Seveso Directive - Control of major accident hazards	E2 1436

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15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate.
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
 CAS: Chemical Abstracts Service.
 DNEL: Derived No Effect Level.
 IATA: International Air Transport Association.
 IMDG: International Maritime Dangerous Goods.
 Kow: Octanol-water partition coefficient.
 LC₅₀: Lethal Concentration to 50 % of a test population.
 LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
 PBT: Persistent, Bioaccumulative and Toxic substance.
 PNEC: Predicted No Effect Concentration.
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
 RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
 vPvB: Very Persistent and Very Bioaccumulative.
 IARC: International Agency for Research on Cancer.
 MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.
 cATpE: Converted Acute Toxicity Point Estimate.
 BCF: Bioconcentration Factor.
 BOD: Biochemical Oxygen Demand.
 EC₅₀: 50% of maximal Effective Concentration.
 LOAEC: Lowest Observed Adverse Effect Concentration.
 LOAEL: Lowest Observed Adverse Effect Level.
 NOAEC: No Observed Adverse Effect Concentration.
 NOAEL: No Observed Adverse Effect Level.
 NOEC: No Observed Effect Concentration.
 LOEC: Lowest Observed Effect Concentration.
 DMEL: Derived Minimal Effect Level.
 EL50: Exposure Limit 50
 hPa: Hectopascal
 LL50: Lethal Loading fifty
 OECD: Organisation for Economic Co-operation and Development
 POW: Octanol-water partition coefficient
 SCBA: self-contained breathing apparatus
 STP: Sewage Treatment Plant
 VOC: Volatile Organic Compounds

Classification abbreviations and acronyms

Acute Tox. = Acute toxicity
 Aquatic Acute = Hazardous to the aquatic environment (acute)
 Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Key literature references and sources for data

Supplier's information.

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Classification procedures according to Regulation (EC) 1272/2008	Carc. 2 - H351: Calculation method. Asp. Tox. 1 - H304: Calculation method. STOT SE 3 - H336: Calculation method. Aquatic Chronic 2 - H411: Calculation method.
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	22/03/2021
Version number	1.001
Supersedes date	06/05/2014
SDS number	10142
SDS status	Approved.
Hazard statements in full	H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. 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.
Signature	Jitendra Panchal

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.