

Creation Date Oct 2013

Revision Date Oct 2018

Revision Number 2

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identification

**Product Description:** n-Amyl acetate  
**Product Grade:** SQ  
**Cat No. :** Q21505, Q21507  
**Synonyms** 1-Pentyl acetate, Iso Amyl Acetate  
**CAS-No** 628-63-7  
**EC-No.** 211-047-3  
**Molecular Formula** C7 H14 O2

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

**Recommended Use** Laboratory chemicals.  
**Uses advised against** No Information available

### 1.3. Details of the supplier of the safety data sheet

**Company** Thermo Fisher Scientific India Pvt. Ltd  
403-404, B-wing, Delphi, Hiranandani Business Park,  
Powai, Mumbai 400076, INDIA.  
**E-mail address** [laboratorysolutions@thermofisher.com](mailto:laboratorysolutions@thermofisher.com)

### 1.4. Emergency telephone number

India Toll Free: 18 00 22 22 30  
Chemtrec US: (800) 424-9300  
Chemtrec EU: 001 (202) 483-7616

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

#### CLP Classification - Regulation (EC) No 1272/2008

##### Physical hazards

Flammable liquids Category 3

##### Health hazards

Serious Eye Damage/Eye Irritation Category 2  
Specific target organ toxicity - (single exposure) Category 3

##### Environmental hazards

Based on available data, the classification criteria are not met

### 2.2. Label elements

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**Signal Word**

**Warning**

## Hazard Statements

- H226 - Flammable liquid and vapor
- H319 - Causes serious eye irritation
- H335 - May cause respiratory irritation
- EUH066 - Repeated exposure may cause skin dryness or cracking

## Precautionary Statements

- P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray
- P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing
- P312 - Call a POISON CENTER or doctor/ physician if you feel unwell
- P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

## 2.3. Other hazards

No information available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Component	CAS-No	EC-No.	Weight %	CLP Classification - Regulation (EC) No 1272/2008
n-Amyl acetate	628-63-7	EEC No. 211-047-3	98	Flam. Liq. 3 (H226) Eye Irrit. 2 (H319) STOT SE 3 (H335) (EUH066)

Full text of Hazard Statements: see section 16

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

<b>General Advice</b>	If symptoms persist, call a physician.
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water.
<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.
<b>Protection of First-aiders</b>	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

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

None reasonably foreseeable. Breathing difficulties. . Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

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

### Notes to Physician

Treat symptomatically. Symptoms may be delayed.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### Suitable Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed containers exposed to fire with water spray.

#### Extinguishing media which must not be used for safety reasons

No information available.

### 5.2. Special hazards arising from the substance or mixture

Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

#### Hazardous Combustion Products

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>).

### 5.3. Advice for firefighters

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.

### 6.2. Environmental precautions

Should not be released into the environment. See Section 12 for additional ecological information.

### 6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

### 6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Wear personal protective equipment. Ensure adequate ventilation. Avoid ingestion and inhalation. Do not get in eyes, on skin, or on clothing. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Take precautionary measures against static discharges.

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## 7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition.

## 7.3. Specific end use(s)

Use in laboratories

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Exposure limits

List source(s): **EU** - Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC on the protection of the health and safety of workers from the risks related to chemical agents at work. **UK** - EH40/2005 Containing the workplace exposure limits (WELs) for use with the Control of Substances Hazardous to Health Regulations (COSHH) 2002 (as amended). Updated by September 2006 official press release and October 2007 Supplement. **IRE** - 2010 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001. Published by the Health and Safety Authority.

Component	European Union	The United Kingdom	France	Belgium	Spain
n-Amyl acetate	TWA: 50 ppm 8 hr TWA: 270 mg/m <sup>3</sup> 8 hr STEL: 100 ppm 15 min STEL: 540 mg/m <sup>3</sup> 15 min	STEL: 100 ppm 15 min STEL: 541 mg/m <sup>3</sup> 15 min TWA: 50 ppm 8 hr TWA: 270 mg/m <sup>3</sup> 8 hr	TWA / VME: 50 ppm (8 heures). restrictive limit TWA / VME: 270 mg/m <sup>3</sup> (8 heures). restrictive limit STEL / VLCT: 100 ppm. restrictive limit STEL / VLCT: 540 mg/m <sup>3</sup> . restrictive limit	TWA: 50 ppm 8 uren TWA: 270 mg/m <sup>3</sup> 8 uren STEL: 100 ppm 15 minuten STEL: 540 mg/m <sup>3</sup> 15 minuten	STEL / VLA-EC: 100 ppm (15 minutos). STEL / VLA-EC: 540 mg/m <sup>3</sup> (15 minutos). TWA / VLA-ED: 50 ppm (8 horas) TWA / VLA-ED: 270 mg/m <sup>3</sup> (8 horas)

Component	Italy	Germany	Portugal	The Netherlands	Finland
n-Amyl acetate	TWA: 50 ppm 8 ore. Media Ponderata TWA: 270 mg/m <sup>3</sup> 8 ore. Media Ponderata STEL: 100 ppm 15 minuti. Breve termine STEL: 540 mg/m <sup>3</sup> 15 minuti. Breve termine	TWA: 50 ppm (8 Stunden). AGW - exposure factor 1 TWA: 270 mg/m <sup>3</sup> (8 Stunden). AGW - exposure factor 1 TWA: 50 ppm (8 Stunden). MAK TWA: 270 mg/m <sup>3</sup> (8 Stunden). MAK Höhepunkt: 50 ppm Höhepunkt: 270 mg/m <sup>3</sup>	STEL: 100 ppm 15 minutos STEL: 540 mg/m <sup>3</sup> 15 minutos TWA: 50 ppm 8 horas TWA: 270 mg/m <sup>3</sup> 8 horas	STEL: 530 mg/m <sup>3</sup> 15 minuten	TWA: 50 ppm 8 tunteina TWA: 270 mg/m <sup>3</sup> 8 tunteina STEL: 100 ppm 15 minuutteina STEL: 540 mg/m <sup>3</sup> 15 minuutteina

Component	Austria	Denmark	Switzerland	Poland	Norway
n-Amyl acetate	MAK-KZW: 100 ppm 15 Minuten MAK-KZW: 540 mg/m <sup>3</sup> 15 Minuten MAK-TMW: 50 ppm 8 Stunden MAK-TMW: 270 mg/m <sup>3</sup> 8 Stunden	TWA: 50 ppm 8 timer TWA: 271 mg/m <sup>3</sup> 8 timer	STEL: 50 ppm 15 Minuten STEL: 260 mg/m <sup>3</sup> 15 Minuten TWA: 50 ppm 8 Stunden TWA: 260 mg/m <sup>3</sup> 8 Stunden	STEL: 500 mg/m <sup>3</sup> 15 minutach TWA: 250 mg/m <sup>3</sup> 8 godzinach	TWA: 50 ppm 8 timer TWA: 260 mg/m <sup>3</sup> 8 timer STEL: 50 ppm 15 minutter. STEL: 260 mg/m <sup>3</sup> 15 minutter.

Component	Bulgaria	Croatia	Ireland	Cyprus	Czech Republic
n-Amyl acetate	TWA: 50 ppm TWA: 270.0 mg/m <sup>3</sup> STEL : 100 ppm STEL : 540.0 mg/m <sup>3</sup>	TWA-GVI: 50 ppm 8 satima. TWA-GVI: 270 mg/m <sup>3</sup> 8 satima. STEL-KGVI: 100 ppm 15 minutama. STEL-KGVI: 540 mg/m <sup>3</sup> 15 minutama.	TWA: 50 ppm 8 hr. TWA: 270 mg/m <sup>3</sup> 8 hr. STEL: 100 ppm 15 min STEL: 540 mg/m <sup>3</sup> 15 min	STEL: 100 ppm STEL: 540 mg/m <sup>3</sup> TWA: 50 ppm TWA: 270 mg/m <sup>3</sup>	Ceiling: 540 mg/m <sup>3</sup>

Component	Estonia	Gibraltar	Greece	Hungary	Iceland
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n-Amyl acetate	TWA: 50 ppm 8 tundes. TWA: 270 mg/m <sup>3</sup> 8 tundes. STEL: 100 ppm 15 minutites. STEL: 540 mg/m <sup>3</sup> 15 minutites.	TWA: 50 ppm 8 hr TWA: 270 mg/m <sup>3</sup> 8 hr STEL: 100 ppm 15 min STEL: 540 mg/m <sup>3</sup> 15 min	STEL: 150 ppm STEL: 800 mg/m <sup>3</sup> TWA: 100 ppm TWA: 530 mg/m <sup>3</sup>	STEL: 540 mg/m <sup>3</sup> 15 percekben. CK TWA: 270 mg/m <sup>3</sup> 8 órában. AK	STEL: 100 ppm STEL: 540 mg/m <sup>3</sup> TWA: 50 ppm 8 klukkustundum. TWA: 270 mg/m <sup>3</sup> 8 klukkustundum. TWA: 266 mg/m <sup>3</sup> 8 klukkustundum. regulated under Pentyl acetate Ceiling: 100 ppm Ceiling: 540 mg/m <sup>3</sup> Ceiling: 532 mg/m <sup>3</sup> regulated under Pentylacetate
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Component	Latvia	Lithuania	Luxembourg	Malta	Romania
n-Amyl acetate	STEL: 100 ppm STEL: 540 mg/m <sup>3</sup> TWA: 50 ppm TWA: 270 mg/m <sup>3</sup>	TWA: 50 ppm IPRD TWA: 270 mg/m <sup>3</sup> IPRD TWA: 100 ppm IPRD TWA: 540 mg/m <sup>3</sup> IPRD STEL: 100 ppm STEL: 540 mg/m <sup>3</sup> STEL: 150 ppm STEL: 810 mg/m <sup>3</sup>	TWA: 50 ppm 8 Stunden TWA: 270 mg/m <sup>3</sup> 8 Stunden STEL: 100 ppm 15 Minuten STEL: 540 mg/m <sup>3</sup> 15 Minuten	TWA: 50 ppm TWA: 270 mg/m <sup>3</sup> STEL: 100 ppm 15 minuti STEL: 540 mg/m <sup>3</sup> 15 minuti	TWA: 56 ppm 8 ore TWA: 300 mg/m <sup>3</sup> 8 ore TWA: 50 ppm 8 ore TWA: 270 mg/m <sup>3</sup> 8 ore STEL: 100 ppm 15 minute STEL: 540 mg/m <sup>3</sup> 15 minute STEL: 94 ppm 15 minute STEL: 500 mg/m <sup>3</sup> 15 minute

Component	Russia	Slovak Republic	Slovenia	Sweden	Turkey
n-Amyl acetate	MAC: 100 mg/m <sup>3</sup>	Ceiling: 540 mg/m <sup>3</sup> TWA: 50 ppm TWA: 270 mg/m <sup>3</sup>	TWA: 50 ppm 8 urah TWA: 270 mg/m <sup>3</sup> 8 urah STEL: 100 ppm 15 minutah STEL: 540 mg/m <sup>3</sup> 15 minutah	STV: 100 ppm 15 minuter STV: 540 mg/m <sup>3</sup> 15 minuter LLV: 50 ppm 8 timmar. LLV: 270 mg/m <sup>3</sup> 8 timmar.	TWA: 50 ppm 8 saat TWA: 270 mg/m <sup>3</sup> 8 saat STEL: 100 ppm 15 dakika STEL: 540 mg/m <sup>3</sup> 15 dakika

### Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

### Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

MDHS70 General methods for sampling airborne gases and vapours

MDHS 88 Volatile organic compounds in air. Laboratory method using diffusive samplers, solvent desorption and gas chromatography

MDHS 96 Volatile organic compounds in air - Laboratory method using pumped solid sorbent tubes, solvent desorption and gas chromatography

**Derived No Effect Level (DNEL)** No information available

<u>Route of exposure</u>	Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
Oral Dermal Inhalation				

**Predicted No Effect Concentration (PNEC)** No information available.

### 8.2. Exposure controls

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## Engineering Measures

Use explosion-proof electrical/ventilating/lighting/equipment. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

## Personal protective equipment

**Eye Protection** Goggles (European standard - EN 166)  
**Hand Protection** Protective gloves

Glove material	Breakthrough time	Glove thickness	EU standard	Glove comments
Viton (R)	See manufacturers	-	EN 374	(minimum requirement)
Nitrile rubber	recommendations			
Neoprene				
Natural rubber				
PVC				

**Skin and body protection** Long sleeved clothing

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatibility, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

**Respiratory Protection** No protective equipment is needed under normal use conditions.

**Large scale/emergency use** Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced  
**Recommended Filter type:** Organic gases and vapours filter Type A Brown conforming to EN14387

**Small scale/Laboratory use** Maintain adequate ventilation Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.  
**Recommended half mask:-** Valve filtering: EN405; or; Half mask: EN140; plus filter, EN 141

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** No information available.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

**Appearance** Colorless  
**Physical State** Liquid  
**Odor** sweet  
**Odor Threshold** No data available  
**pH** No information available  
**Melting Point/Range** -70.8 °C / -95.4 °F  
**Softening Point** No data available  
**Boiling Point/Range** 149 °C / 300.2 °F @ 760 mmHg  
**Flash Point** 24 °C / 75.2 °F **Method -** No information available  
**Evaporation Rate** No data available  
**Flammability (solid,gas)** Not applicable Liquid  
**Explosion Limits** **Lower** 1  
**Upper** 7.5

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Vapor Pressure	No data available	
Vapor Density	No data available	(Air = 1.0)
Specific Gravity / Density	0.870	
Bulk Density	Not applicable	Liquid
Water Solubility	10 g/l (20°C)	
Solubility in other solvents	No information available	
Partition Coefficient (n-octanol/water)		
Autoignition Temperature	375 - °C / 707 - °F	
Decomposition Temperature	No data available	
Viscosity	No data available	
Explosive Properties	No information available	explosive air/vapour mixtures possible
Oxidizing Properties	No information available	

## 9.2. Other information

Molecular Formula	C7 H14 O2
Molecular Weight	130.19

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

None known, based on information available

### 10.2. Chemical stability

Stable under normal conditions

### 10.3. Possibility of hazardous reactions

Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

### 10.4. Conditions to avoid

Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition.

### 10.5. Incompatible materials

Strong oxidizing agents. Strong bases.

### 10.6. Hazardous decomposition products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Product Information

#### (a) acute toxicity;

Oral	Based on available data, the classification criteria are not met
Dermal	No data available
Inhalation	No data available

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
n-Amyl acetate	LD50 > 1600 mg/kg ( Rat )		

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; Category 2

(d) respiratory or skin sensitization;  
Respiratory No data available

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<b>Skin</b>	No data available
<b>(e) germ cell mutagenicity;</b>	No data available
<b>(f) carcinogenicity;</b>	No data available There are no known carcinogenic chemicals in this product
<b>(g) reproductive toxicity;</b>	No data available
<b>(h) STOT-single exposure;</b>	Category 3
<b>(i) STOT-repeated exposure;</b>	No data available
<b>Target Organs</b>	Central nervous system (CNS), Eyes, Respiratory system, Skin.
<b>(j) aspiration hazard;</b>	No data available
<b>Other Adverse Effects</b>	The toxicological properties have not been fully investigated.
<b>Symptoms / effects, both acute and delayed</b>	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

**Ecotoxicity effects** This product contains the following substance(s) which are hazardous for the environment.

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
n-Amyl acetate	LC50: = 650 mg/L, 96h static (Lepomis macrochirus)			

### 12.2. Persistence and degradability

**Persistence** Soluble in water, Persistence is unlikely, based on information available.

**12.3. Bioaccumulative potential** Bioaccumulation is unlikely

**12.4. Mobility in soil** The product is water soluble, and may spread in water systems Will likely be mobile in the environment due to its water solubility. Highly mobile in soils

**12.5. Results of PBT and vPvB assessment** No data available for assessment.

### 12.6. Other adverse effects

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors  
**Persistent Organic Pollutant** This product does not contain any known or suspected substance  
**Ozone Depletion Potential** This product does not contain any known or suspected substance

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Waste from Residues / Unused Products** Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.

**Contaminated Packaging** Dispose of this container to hazardous or special waste collection point. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep product and empty container away from heat and sources of ignition.



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**European Waste Catalogue (EWC)** According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

**Other Information** Waste codes should be assigned by the user based on the application for which the product was used. Do not dispose of waste into sewer. Can be incinerated, when in compliance with local regulations.

## SECTION 14: TRANSPORT INFORMATION

### IMDG/IMO

**14.1. UN number** UN1104  
**14.2. UN proper shipping name** AMYL ACETATES  
**14.3. Transport hazard class(es)** 3  
**14.4. Packing group** III

### ADR

**14.1. UN number** UN1104  
**14.2. UN proper shipping name** AMYL ACETATES  
**14.3. Transport hazard class(es)** 3  
**14.4. Packing group** III

### IATA

**14.1. UN number** UN1104  
**14.2. UN proper shipping name** AMYL ACETATES  
**14.3. Transport hazard class(es)** 3  
**14.4. Packing group** III

**14.5. Environmental hazards** No hazards identified

**14.6. Special precautions for user** No special precautions required

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable, packaged goods

## SECTION 15: REGULATORY INFORMATION

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

International Inventories X = listed

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	IECSC	AICS	KECL
n-Amyl acetate	211-047-3	-		X	X	-	X	X	X	X	X

### National Regulations

Component	Germany - Water Classification (VwVwS)	Germany - TA-Luft Class
n-Amyl acetate	WGK 1	

Component	France - INRS (Tables of occupational diseases)
n-Amyl acetate	Tableaux des maladies professionnelles (TMP) - RG 84

Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment.

Take note of Dir 94/33/EC on the protection of young people at work

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

### 15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

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## SECTION 16: OTHER INFORMATION

### Full Text of H-/EUH-Statements Referred to Under Section 3

H226 - Flammable liquid and vapor  
EUH066 - Repeated exposure may cause skin dryness or cracking  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation

### Legend

**CAS** - Chemical Abstracts Service

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**IECSC** - Chinese Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**WEL** - Workplace Exposure Limit

**ACGIH** - American Conference of Governmental Industrial Hygienists

**DNEL** - Derived No Effect Level

**RPE** - Respiratory Protective Equipment

**LC50** - Lethal Concentration 50%

**NOEC** - No Observed Effect Concentration

**PBT** - Persistent, Bioaccumulative, Toxic

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**ENCS** - Japanese Existing and New Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**NZIoC** - New Zealand Inventory of Chemicals

**TWA** - Time Weighted Average

**IARC** - International Agency for Research on Cancer

**PNEC** - Predicted No Effect Concentration

**LD50** - Lethal Dose 50%

**EC50** - Effective Concentration 50%

**POW** - Partition coefficient Octanol:Water

**vPvB** - very Persistent, very Bioaccumulative

**ADR** - European Agreement Concerning the International Carriage of Dangerous Goods by Road

**IMO/IMDG** - International Maritime Organization/International Maritime Dangerous Goods Code

**OECD** - Organisation for Economic Co-operation and Development

**BCF** - Bioconcentration factor

**ICAO/IATA** - International Civil Aviation Organization/International Air Transport Association

**MARPOL** - International Convention for the Prevention of Pollution from Ships

**ATE** - Acute Toxicity Estimate

**VOC** - Volatile Organic Compounds

### **Key literature references and sources for data**

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

### **Training Advice**

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

Chemical incident response training.

Fire prevention and fighting, identifying hazards and risks, static electricity, explosive atmospheres posed by vapours and dusts.

**Creation Date** Oct-2013

**Next Revision Date** Oct-2023

**Revision Summary** SDS section 1 updated and update to Format.

**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

### **Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**