

Revision (M)SDS Number JEM_002 (No TEG)

Revision date 29th October 2025

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

Product Code (s)	97120832, 97120833, 97120834, 97120842, 97120843, 97120844, 91401879, 97120852, 97120853, 97120854, 97120901, 97120902, 97120903, 97120904, 91401880, 97122013
Product Name	JEM Effect Fluids
Synonyms	JEM Low-Fog Fluid, Quick Dissipating; JEM Low-Fog Fluid; JEM Low-Fog Fluid, High Density; JEM Pro-Fog Fluid, Extra Quick Dissipating; Pro-Clean and Storage Fluid
Pure substance/mixture	Mixture.

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

Recommended use	Industrial, Consumer use Atmospheric fog or haze effects using a JEM brand machine
Uses advised against	No information available

1.3. Details of the supplier of the safety data sheet

Manufacturer	Supplier
JEM Manufacturing Ltd Belvoir Way Fairfield Industrial Estate, Louth, Lincolnshire LN11 0LQ +44 1507 307 443	JEM Professional Aps Odeons Kvarter 21, 16 th DK-5000 Odense +45 22 80 300 90

For further information, please contact

E-mail address info@JEMprofessional.com

1.4. Emergency telephone number

Emergency telephone	+45 22 80 30 90 (M-F, 8am - 5pm)
Emergency telephone	- §45 - (EC)1272/2008
Europe	112

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].

2.2. Label elements	No label elements required. EUH210 - Safety data sheet available on request.
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2.3. Other hazards

Other hazards	No information available.
PBT or vPvB properties	This product does not contain any substances that are assessed to be a PBT or a vPvB.
Endocrine Disruptor Information	This product does not contain any known or suspected endocrine disruptors

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878,
and Regulation (EC) No. 1272/2008

SECTION 3: Composition/information on ingredients

3.1 **Substances** Not applicable

3.2 Mixtures

Chemical name	Weight %	REACH registration number	EC No. (Index No.)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor M-Factor (long-term)	Notes
Propylene glycol 57-55-6	12 - 35	No data available	200-338-0	[C]	-	-	-	-

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

[C] - Components with occupational exposure limits and/or biological occupational exposure limits requiring monitoring

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

Acute Toxicity Estimate

If LD50 / LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATE mix) for classifying a mixture based on its components

Chemical name	Oral LD 50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 = 4 Hour – dust/mist – mg/L	Inhalation LC50 = 4 Hour – Vapour – mg/L	Inhalation LC50 = 4 Hour – gas – ppm
Propylene glycol 57-55-6	20000	20800	No data available	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59).

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids.
Skin contact	Wash with plenty of water.
Ingestion	Rinse mouth.

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

Symptoms	None known.
Effects of Exposure	None known.

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

Note to doctors	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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Unsuitable extinguishing media	No information available.
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5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the Chemical	No information available.
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5.3. Advice for firefighters

Special protective equipment and Precautions for firefighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
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SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions
For emergency responders**

Ensure adequate ventilation.
Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions

See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches and waterways.

Methods for cleaning up

Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers. Clean contaminated surface thoroughly.

Prevention of secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections

See section 8 for more information. See section 13 for more information.

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

Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice.

General hygiene considerations

Wash hands before breaks and after work. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

Storage class (TRGS 510)

LGK 10.

7.3. Specific end use(s)

Specific use (s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

Exposure Limits

Chemical name	Austria	Belgium	Bulgaria	Croatia
Propylene glycol 57-55-6	-	-	-	TWA-GVI: 150 ppm; TWA-GVI: 474 mg/m3; total vapor and particles TWA-GVI: 10 mg/m3; particles
Chemical name	Ireland	Latvia	Lithuania	Luxembourg
Propylene glycol 57-55-6	TWA: 10 mg/m3; particulate TWA: 150 ppm; total vapour and particulates TWA: 470 mg/m3; total vapour and particulates STEL: 1410 mg/m3 (calculated); particulates TEL: 30 mg/m3 (calculated);	TWA: 7 mg/m3;	TWA-IPRD: 7 mg/m3;	-

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	STEL: 450 ppm (calculated); total vapor and particulates			
Chemical name	Malta	Netherlands	Norway	Poland
Propylene glycol 57-55-6	-	-	TWA: 25 ppm. TWA: 79 mg/m3. STEL: 37.5 ppm (value calculated); STEL: 118.5 mg/m3 (value calculated);	TWA-NDS: 100 mg/m3. vapor and inhalable fraction
Chemical name	Spain	Sweden	Switzerland	United Kingdom
Propylene glycol 57-55-6	-	-	-	TWA: 150 ppm; total vapour and particulate TWA: 474 mg/m3; total vapour and particulate TWA: 10 mg/m3; particulate STEL: 450 ppm; total vapour and particulate STEL: 1422 mg/m3; total vapour and particulate STEL: 30 mg/m3; particulate

Note See section 16 for terms and abbreviations

Biological occupational exposure limits

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

Derived No Effect Level (DNEL) – Workers No information available

Derived No Effect Level (DNEL) - General Public No information available.

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Fresh water (Intermittent release)	Marine water	Marine water (intermittent release)	Air
Propylene glycol 57-55-6	260 mg/L	183 mg/L	26 mg/L	-	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Propylene glycol 57-55-6	572 mg/kg sediment dw	57.2 mg/kg sediment dw	20000 mg/L	50 mg/kg soil dw	-

8.2. Exposure controls

Engineering controls Showers
Eyewash stations
Ventilation systems.

Personal protective equipment

Eye/face protection No special protective equipment required.

Hand protection No special protective equipment required.

Skin and body protection No special protective equipment required.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Liquid
Colour Colourless
Odour Mild
Odour threshold No information available

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and Regulation (EC) No. 1272/2008

Property	Values	Remarks • Method
Melting point / freezing point	< -20 °C	No data available
Boiling point or initial boiling point and boiling range	101.6 – 201.6 °C	
Flammability	-	No data available
Lower and upper explosion limit/flammability limit		
Lower explosion limit	2.9	No data available
Upper explosion limit	18.1	No data available
Flash point	103 °C	No data available
Autoignition temperature	-	No data available
Decomposition temperature	-	No data available
SADT (°C)	-	No data available
pH	Neutral	No data available
pH (as aqueous solution)	-	No data available
Kinematic viscosity	-	No data available
Dynamic viscosity	-	No data available
Water solubility	-	No data available
Solubility	Miscible in water	No data available
Partition coefficient n-octanol/water (log value)	-	No data available
Vapour pressure	2.67 kPa	@ 20°C
Density and/or relative density	1.050	@ 20°C
Bulk density	-	No data available
Liquid Density	-	No data available
Relative vapour density	3.9	No data available
Particle characteristics		
Particle Size	-	No data available
Particle Size Distribution	-	No data available

9.2. Other information

Molecular weight	-	No information available
VOC content	-	No information available
Softening point	-	No information available

9.2.1. Information with regards to physical hazard classes

Explosives

Explosive properties	No information available
Oxidising properties	No information available

9.2.2. Other safety characteristics

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	None under normal use conditions.
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10.2. Chemical stability

Stability	Stable under normal conditions.
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Explosion data

Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	None under normal processing.
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10.4. Conditions to avoid

Conditions to avoid	High temperature.
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10.5. Incompatible materials

Incompatible materials	Strong acids. Strong bases. Strong oxidising agents.
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10.6. Hazardous decomposition products

Hazardous decomposition products

None known based on information supplied.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Product Information.

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms None known.

Acute toxicity Based on available data, the classification criteria are not met.
Numerical measures of toxicity

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Propylene glycol	= 20 g/kg (Rat)	= 20800 mg/kg (Rabbit)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Based on available data, the classification criteria are not met.

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

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

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

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

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

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

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

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

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disruption for human Health Based on available data, the classification criteria are not met.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

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

Aquatic toxicity

Component Information

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878,
and Regulation (EC) No. 1272/2008

Chemical name	Fish	Crustacea	Algae/aquatic plants	Toxicity to microorganisms
Propylene glycol	LC50: =51600mg/L (96h, Oncorhynchus mykiss) LC50: 41 - 47mg/L (96h, Oncorhynchus mykiss) LC50: =51400mg/L (96h, Pimephales promelas) LC50: =710mg/L (96h, Pimephales promelas)	EC50: >1000mg/L (48h, Daphnia magna)	EC50: =19000mg/L (96h, Pseudokirchneriella subcapitata)	-

12.2. Persistence and degradability

No information available.

12.3. Bio accumulative potential

Chemical name	Partition coefficient	Bioconcentration factor (BCF)	Trophic magnification factor (TMF)
Propylene glycol	-1.07	1	-

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

This product does not contain any substances that are assessed to be a PBT or a vPvB.

Chemical name	PBT and vPvB assessment
Propylene glycol	Not PBT/vPvB

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

No information available.

PMT or vPvM properties

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging

Do not reuse empty containers.

Waste codes / waste designations according

According to the European Waste Catalogue, Waste Codes are

To EWC / AW

not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

IATA

14.1 UN number or ID number

Not regulated

14.2 UN proper shipping name

Not regulated

14.3 Transport hazard class(es)

Not regulated

14.4 Packing group

Not regulated

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

Special Provisions

None

IMDG

14.1 UN number or ID number

Not regulated

14.2 UN proper shipping name

Not regulated

14.3 Transport hazard class(es)

Not regulated

14.4 Packing group

Not regulated

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

Special Provisions

None

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and Regulation (EC) No. 1272/2008

14.7 Maritime transport in bulk according to IMO instruments

No information available

RID

14.1 UN number or ID number

Not regulated

14.2 UN proper shipping name

Not regulated

14.3 Transport hazard class(es)

Not regulated

14.4 Packing group

Not regulated

14.5 Environmental hazards

Not regulated

14.6 Special precautions for user

Not applicable

Special Provisions

None

ADR

14.1 UN number or ID number

Not regulated

14.2 UN proper shipping name

Not regulated

14.3 Transport hazard class(es)

Not regulated

14.4 Packing group

Not regulated

14.5 Environmental hazards

Not regulated

14.6 Special precautions for user

Not applicable

Special Provisions

None

ADN

14.1 UN number or ID number

Not regulated

14.2 UN proper shipping name

Not regulated

14.3 Transport hazard class(es)

Not regulated

14.4 Packing group

Not applicable

14.5 Environmental hazard

Not applicable

14.6 Special precautions for user

Special Provisions

None

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

National regulations

France

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number
Propylene glycol 57-55-6	RG 84

Germany

Water hazard class (WGK)

slightly hazardous to water (WGK 1)

Chemical Prohibition Ordinance (ChemVerbotsV)

Not applicable.

TRGS 905

Not applicable

Switzerland

Ordinance on the Incentive Tax on Volatile Organic Compounds (OVOC) SR 814.018

Not applicable

Storage of Hazardous Material

SC Non-hazardous material

WPO (GSchV) SR 814.201; WPA (GSchG) SR 814.20

Class B

Major Accidents Ordinance SR 814.012

Not applicable

European Union

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.

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 2024/590

Not applicable.

Explosives Precursors Marketing and Use (2019/1148)

Not applicable

International Inventories

Contact supplier for inventory compliance status

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and Regulation (EC) No. 1272/2008

15.2. Chemical safety assessment

Chemical Safety Report

No information available.

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

List may include phrases which are not applicable to this product

ACGIH	American Conference of Governmental Industrial Hygienists
AIDII	Italian Association of Industrial Hygienists
ADN	Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Europe)
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road (Europe)
AIIC	Australian Inventory of Industrial Chemicals
ATE	Acute Toxicity Estimate
ASTM	American Society for the Testing of Materials
bar	Biological Reference Values for Chemical Compounds in the Work Area
BAT	Biological tolerance values for occupational exposure
BEL	Biological exposure limits
bw	Body weight
Ceiling	Maximum limit value
CLP	Classification, Labelling and Packaging Regulation; Regulation (EC) No 1272/2008
CMR	Carcinogen, Mutagen or Reproductive Toxicant
DFG	German Research Foundation
DOT	Department of Transportation (United States)
DSL	Domestic Substances List (Canada)
ECHA	European Chemicals Agency
EC Number	European Community number
EmS	Emergency Schedule
ENCS	Existing and New Chemical Substances (Japan)
EPA	U.S. Environmental Protection Agency
EWC	European Waste Codes
GHS	Globally Harmonized System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO	International Civil Aviation Organisation
IECSC	Inventory of Existing Chemical Substances in China
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Organisation for Standardisation
KECI	Korean Existing Chemicals Inventory
LC50	Lethal Concentration to 50% of a test population
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
MAK	Maximum Concentration at the Workplace
MAL	Measuring Technical Hygienic Air Needs
MARPOL	International Convention for the Prevention of Pollution from Ships
MDLPS	Ministry of Labour and Social Policy
n.o.s	Not Otherwise Specified
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOELR	No Observable Effect Loading Rate
NZIoC	New Zealand Inventory of Chemicals
OECD	Organization for Economic Cooperation and Development
OEL	Occupational exposure limits
PBT	Persistent, Bio accumulative and Toxic substance
PICCS	Philippines Inventory of Chemicals and Chemical Substances
PMT	Persistent, Mobile and Toxic
PPE	Personal protective equipment
QSAR	Quantitative Structure Activity Relationship
REACH	Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)
RID	Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe)
SADT	Self-Accelerating Decomposition Temperature
SAR	Structure-activity relationship
SDS	Safety Data Sheet
SL	Surface Limit
STEL	Short Term Exposure Limit
STOT RE	Specific target organ toxicity - Repeated exposure

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STOT SE	Specific target organ toxicity - Single exposure
SVHC	Substance of very high concern
TCSI	Taiwan Chemical Substance Inventory
TDG	Transport of Dangerous Goods (Canada)
TRGS	Technical Rule for Hazardous Substances
TSCA	Toxic Substances Control Act (United States)
TWA	Time-Weighted Average
UN	United Nations
VOC	Volatile organic compounds
vPvB	Very Persistent and Very Bio accumulative
vPvM	Very Persistent and Very Mobile
As	Allergenic substance
C	Carcinogen
DS	Dermal Sensitizer
Ot	Ototoxic ant
pOt	Ototoxic ant - potential to cause hearing disorders
PS	Photosensitizer
RS	Respiratory Sensitizer
S	Sensitizer
poS	Sensitizer - capable of causing occupational asthma
Sa	Simple asphyxiant
Sd	Skin designation
pSd	Skin designation - potential for cutaneous absorption
Sdv	Skin designation - vacated
Sk	Skin notation
dSk	Skin notation - danger of cutaneous absorption
pSk	Skin notation - potential for cutaneous absorption

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method use
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Chronic aquatic toxicity	Calculation method
Acute aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS

U.S. Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency Chem View Database
European Food Safety Authority (EFSA)
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
European Chemicals Agency (ECHA) (ECHA_API)
U.S. Environmental Protection Agency
Acute Exposure Guideline Level(s) (AEGLS)
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's Chem ID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
U.S. National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
International Organization for Economic Co-operation and Development (OECD) Environment, Health, and Safety Publications



SAFETY DATA SHEET

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and Regulation (EC) No. 1272/2008

International Organization for Economic Co-operation and Development (OECD) High Production Volume Chemicals Program
International Organization for Economic Co-operation and Development (OECD) Screening Information Data Set
United Nations World Health Organization (WHO)

Issuing Date 29th October 2025
Revision date 29th October 2025
Revision Note Initial Release.

This safety data sheet complies with the requirements of Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No. 1907/2006

Disclaimer

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

End of Safety Data Sheet