



Safety Data Sheet

Chemical Safety Technical Data Sheet

Developed in accordance with GB/T 16483 and GB/T 17519.

Version 1.0

Issue date: 2025-01-01

Part 1: Chemicals and Corporate Identification

1.1 Product Identification

- name Dimethyl 2-methylglutarate
- Chemical Abstracts Registration Number (CAS No.) 14035-94-0

1.2 Recommended and non-recommended uses of the substance or mixture

Use of the substance/mixture

- For industrial or professional use only.

1.3 Details of the Provider of the Safety Technical Specification

producer

MR Tek Ltd.

Room 06,13A/F., South Tower, World Finance Center, Harbour City, 17,Canton Road | Tsim Sha Tsui, Kowloon, Hong kong| China

e mail address

info@mingrang-tek.com

1.4 Emergency Consultation Phone Number

+86 138 1854 7689

Part 2: Overview of Risks

2.1 Emergency Overview

Appearance and Characteristics

The liquid is colorless by nature.

Harmful to aquatic organisms.

2.2 Hazard Classification of Substances or Mixtures

GHS Chemical Classification and Labeling Information: In accordance with GB 13690, GB 15258, and GB 30000.2 to GB 30000.29 (GHS 2011).

Acute (short-term) aquatic hazard, Category 3

H402: Harmful to aquatic organisms.

2.3 Tag Element

GHS Chemical Classification and Labeling Information: In compliance with GB 13690, GB 15258, and GB 30000.2 to GB 30000.29 (GHS 2011).

Dangerous products that must be listed on the label

- Chemical Abstracts Registration Number (CAS No.) 14035-94-0 Dimethyl 2-methylglutarate

Risk Description

- H402 Harmful to aquatic organisms.

Precaution Statement

average

- not have .

preventive measure

- P273 Do not release to the environment.

Accountability for incidents

- not have .

Storage

- not have .

Disposal of waste

- P501 Send the contents/containers to an approved waste treatment facility for disposal.

2.4 Other Hazards Not Included in GHS

No reports have been published.

Part 3: Composition/Ingredients Information

3.1 Matter

- chemical property Dimethyl 2-methylglutarate

Component and Impurity Information

Chemical Name	Chemical Abstracts Registration	Identification Number	GHS Hazard Category	Concentration or co-
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Dimethyl 2-methylglutarate	14035-94-0	Not applicable	Acute (short-term) aquatic hazard, Category 3; H402	>= 80 - < 90
Dimethyl sebacate	627-93-0	Not applicable	Eye irritation, Category 2B; H320 Acute (short-term) aquatic hazard, Category 3; H402	>= 1 - < 2.5

For the full text of the health statement (H-) mentioned in this section, please refer to Section 16.

3.2 Mixture

- Not applicable; this product is a substance.

Part 4: First Aid Measures

4.1 Description of Necessary Emergency Measures

General Recommendation

- Emergency responders must protect themselves.
- Show this safety technical data sheet to the attending physician.
- Place the contaminated clothing into a sealed bag for subsequent handling.
- Seek medical attention if symptoms persist or if you have concerns.

If inhaled

- Move to a place with fresh air.
- Get plenty of rest.
- Consult your doctor if necessary.

skin exposure

- Immediately remove contaminated clothing and footwear.
- Rinse immediately with soap and plenty of water.
- Use mild soap if possible.
- In case of skin irritation, seek medical attention.

eye contact

- Rinse immediately with plenty of water for at least 15 minutes, including the lower eyelids.
- If eye irritation persists, consult a physician.

If consumed

- Without medical advice, do not induce vomiting.
- Rinse your mouth with water.
- Do not give any beverages.
- Get plenty of rest.
- Consult your doctor if necessary.

4.2 Most Significant Symptoms and Health Impacts

- No data available

4.3 Timely Medical Intervention and Necessary Specialized Treatment

- No data available

Part 5: Fire Prevention Measures

5.1 Fire Extinguishing Medium

Appropriate fire extinguishing agent

- Fire extinguishing medium – for small fires
- Water spray
- Multi-purpose powder
- Carbon dioxide (CO2)
- Alcohol-resistant aqueous film-forming foam (AR-AFFF)
- Fire extinguishing medium – For large fires
- Water spray
- Multi-purpose powder
- Alcohol-resistant aqueous film-forming foam (AR-AFFF)

Not suitable for use as a fire extinguishing agent.

- Do not use water jets, as this may spread the fire.

5.2 Specific Hazards Caused by Substances or Mixtures

Special hazards during firefighting operations

- The pressure inside a sealed container increases when heated.
- Flammable. However, poses no particular danger during a fire.
- In the event of combustion, it decomposes to produce harmful substances.
- After fire suppression, high concentrations of toxic or hazardous substances may remain in the liquid.

Harmful combustion products:

- Carbon monoxide, carbon dioxide, and unburned hydrocarbons (smoke).

5.3 Recommendations for Firefighters

Special protective equipment for firefighters

- Wear full-body protective clothing and a self-contained breathing apparatus.
- Personal protective equipment includes: appropriate protective gloves, safety goggles, and protective clothing.

Special Fire Extinguishing Methods

- Located downwind.
- Take normal preventive measures and extinguish the fire from an appropriate distance.
- Do not use water jets, as this may spread the fire.
- Spray water mist to cool containers/equipment exposed to heat sources. Ensure that water and the product do not come into direct contact.
- Implement appropriate fire suppression measures based on the specific circumstances and surrounding environment.

Further Information

- Evacuate personnel to a safe area.
- Only trained individuals who are aware of the product's hazards may intervene.
- Never approach or touch containers that are on fire and not fully cooled.
- Collect contaminated firefighting water separately and do not discharge it into sewers.
- Dispose of residual materials and contaminated firefighting water in accordance with local regulations.

Part 6: Emergency Response to Leaks

6.1 Personnel protection measures, protective equipment, and emergency response procedures

- Avoid inhalation, ingestion, and contact with skin and eyes.
- Wear chemical-resistant personal protective equipment.
- Wear appropriate gloves.
- Wear appropriate protective clothing.
- Safety glasses with side protective shields
- Use a respirator with filtration capability in situations where dust or aerosols are generated.
- If steam formation occurs, use a respirator with filtration capability.
- If safety can be ensured, measures should be taken to seal the leak.
- For more detailed information, please refer to Section 8 "Contact Control/Personal Protection".

6.2 Environmental Protection Measures

- Take all necessary measures to prevent accidental discharge of products into drainage channels or water bodies due to rupture of containers
- If safety can be ensured, measures should be taken to prevent further leaks or spills.
- Use a cofferdam to collect the leaked material.
- This product must not be discharged into sewers, waterways, or soil.

6.3 Methods for Containment and Removal of Leaked Chemicals, as Well as the Disposal Materials Used

- If safety can be ensured, measures should be taken to seal the leak.
- Enclose with sand or inert soil (do not use combustible materials).
- Adhere using inert absorption materials (such as sand, silica gel, acidic adhesives, or universal adhesives).
- Eliminate or remove.
- Place in a suitable sealed container for processing.
- Do not return the spill to the original container for reuse.
- Clean with a large amount of water containing detergent.
- Thoroughly clean the contaminated surface.
- Recycle the cleaning water for subsequent disposal.
- Sanitize tools, equipment, and personal protective equipment within the isolation area.
- Process according to local regulations.

Additional Suggestions

- This material may cause slipping.

6.4 Refer to Other Sections

- Part VII: Handling, Storage and Transportation
- Part VIII: Contact Control and Personal Protection
- Part 13: Waste Disposal

Part 7: Handling, Storage, and Disposal

7.1 Precautions for Safe Operation

- Operate in accordance with proper industrial hygiene and safety standards.
- Wear personal protective equipment.
- Wear appropriate protective clothing.
- Avoid inhalation, ingestion, and contact with skin and eyes.
- For personal protection, see Part 8.

health measure

- Operate in accordance with proper industrial hygiene and safety standards.
- Use clean, well-maintained personal protective equipment.
- Clean equipment, work areas, and clothing regularly.

- During use, dietary intake and smoking are strictly prohibited.
- Smoking, eating, and drinking are prohibited in the designated area.
- Wash hands immediately before bedtime and after using this product.
- Contaminated workwear must not be taken outside the workplace.
- Users shall be responsible for monitoring the work environment in accordance with local laws and regulations.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Storage Precautions

- Take all necessary measures to prevent accidental discharge of products into drainage channels or water bodies due to rupture of containers or transportation systems.
- Keep the container tightly sealed and store in a dry, cool, and well-ventilated place.
- Keep away from open flames, hot surfaces, and ignition sources.
- Stay away from incompatible materials specified by the manufacturer.
- Precautions: Contact with certain chemicals may cause hazardous reactions (see the contraindications section in Part X "Stability-"

packing material

Suitable Materials

- Plastic material.
- stainless steel
- Metal coated with a protective layer.

7.3 Specific End Use

- No data available

Part 8: Contact Control/Personal Protection

8.1 Controlling Parameter

- Substances with occupational exposure limits that exceed the thresholds specified in their regulatory reports.

8.2 Risk Control

control measures

engineering control

- An efficient exhaust and ventilation system
- Ensure adequate ventilation.
- Suction from the emission source.
- Ensure that the extracted air does not return to the workplace through the exhaust system.

Personal Protective Measures

Respiratory System Protection

- A reliable comprehensive extraction method should be employed; if feasible, a localized exhaust system may be utilized.
- If the risk assessment results indicate necessity, use a respirator equipped with effective filters.

Hand Protection

- If there is a risk of contact with hands, use appropriate gloves.
- Gloves must be inspected before use.
- Please refer to the specifications provided by the reading glove supplier regarding glove permeability and solvent penetration time. Additionally, consider specific application scenarios such as hazardous cutting, sanding, and contact duration.
- If gloves exhibit any signs of aging or chemical penetration, they should be discarded and replaced.
- Only personal protective equipment compliant with international/national standards (e.g., KOSHA) may be used.

Suitable Materials

- chloroprene rubber
- acrylonitrile-butadiene rubber
- butyl rubber

eye protection

- Safety glasses with side protective shields

Skin and Body Protection

- Systemic protective clothing
- Chemical-resistant shoe covers
- At the workplace, personal protective equipment should be selected based on the quantity and concentration of hazardous substances.

health measure

- Operate in accordance with proper industrial hygiene and safety standards.
- Use clean, well-maintained personal protective equipment.
- Clean equipment, work areas, and clothing regularly.
- During use, dietary intake and smoking are strictly prohibited.
- Smoking, eating, and drinking are prohibited in the designated area.
- Wash hands immediately before bedtime and after using this product.
- Contaminated workwear must not be taken outside the workplace.
- Users shall be responsible for monitoring the work environment in accordance with local laws and regulations.

preventive measure

- You can immediately obtain emergency equipment with usage instructions.

- Ensure that eye-washing and shower facilities are available near the workplace.
- Select appropriate personal protective equipment (PPE) by evaluating the operational characteristics of the PPE based on the intended task, site conditions, duration of use, and potential hazards or risks that may arise during operation.
- The protective equipment must be selected in accordance with current local standards and in collaboration with the equipment supplier.

Environmental Exposure Control

- Take all necessary measures to prevent accidental discharge of products into drainage channels or water bodies due to rupture of containers or transportation systems.
- If safety can be ensured, measures should be taken to prevent further leaks or spills.
- Use a cofferdam to collect the leaked material.
- This product must not be discharged into sewers, waterways, or soil.

Part 9: Physical and Chemical Properties

9.1 Basic Physical and Chemical Properties Information Phase

<u>State</u>	Liquid (20 °C)
<u>Pigment</u>	Colorless
<u>Smell</u>	Characteristics of
<u>Odor Threshold</u>	No data available
<u>Melting point/Fusing point</u>	<u>Caking point:</u> <-75 °C
<u>Initial boiling point and boiling range</u>	<u>Boiling point/boiling range:</u> 215.6 °C
<u>Flammability (solid, gas)</u>	No data available
<u>Flammability (liquid)</u>	No data available
<u>Combustion/Explosion Limit</u>	No data available
<u>Flash point</u>	98 °C closed cup test
<u>Autogenous ignition temperature</u>	No data available
<u>Decomposition temperature</u>	No data available
<u>pH price</u>	No data available
<u>Viscosity</u>	No data available
<u>Solubility</u>	Water-solubility : 25 g/l (20 ° C) Solubility in other solvents: Organic polar solvent: Soluble
<u>Octanol/water partition coefficient</u>	Aromatic hydrocarbons: completely miscible log Pow: 0.89
<u>Vapour pressure</u>	(25 ° C) 0.063 Pa (20 °C)
<u>Density</u>	Approximately 1.05 g/cm³ (at 20 °C)
<u>Density/Relative Density</u>	1.0553 (20 ° C)
<u>Vapour density</u>	No data available
<u>Particle Characteristics</u>	No data available
<u>Evaporation Rate (Butylacetate = 1)</u>	No data available

9.2 Other Information

<u>Oxidability</u>	Not considered an oxide; structure-activity relationship (SAR)
<u>Self-ignition</u>	430 ° C
<u>Impact Sensitivity</u>	Negative Mechanical (impact) sensitivity
<u>Surface tension</u>	Negative Heat-reactivity 64 mN/m (20 7 ° C)

Part 10: Stability and Reactivity

10.1 reactivity

- It is stable at room temperature and pressure.

10.2 chemical stability

- It remains stable under the recommended storage conditions.

10.3 Emergency Response

- No hazardous reactions were observed under normal usage conditions.

10.4 Conditions to be avoided

- Keep away from open flames, hot surfaces, and ignition sources.
- Avoid prolonged overheating.

10.5 Prohibited Complex

- Strong oxidizing agent

10.6 Dangerous Decomposition Products

Dangerous decomposition products

- During combustion or thermal decomposition (pyrolysis), the following substances are released:
- Carbon monoxide, carbon dioxide, and unburned hydrocarbons (smoke).

Part 11: Toxicological Information

11.1 Toxicity Effect Information

Acute toxicity

Acute oral toxicity

LD50:> 2,000 mg/kg female rats
Method: OECD Trial Guide 425
According to the Globally Harmonized System for the Classification and Labelling of Chemicals (GHS), this product is not classified as having acute oral toxicity.
Unpublished internal report
Under this measurement criterion, no fatal cases were observed.

2 Dimethyl methylglutarate

LC50 – 4 h (dust/fume):> 5.6 mg/L in rats, both male and female; methodology: OECD Test Guide 403
According to the Globally Harmonized System for the Classification and Labelling of Chemicals (GHS), this product is not classified as having acute inhalation toxicity.
Unpublished internal report
Under this measurement criterion, no fatal cases were observed.

Acute inhalation toxicity

Dimethyl 2-methylglutarate

Acute dermal toxicity

Dimethyl 2-methylglutarate

LD50:> 2,000 mg/kg – rats (both male and female)
Method: OECD Trial Guide 402
According to the Global System for the Classification and Labelling of Chemicals (GHS), this product is not classified as having acute transdermal toxicity.
Unpublished internal report
Under this measurement criterion, no fatal cases were observed. No data available.

Acute toxicity (other routes of exposure): Skin corrosion/irritation

Dimethyl 2-methylglutarate

Rabbit
No skin irritation
Method: OECD Trial Guide 404
Unpublished internal report

Severe ocular injury/irritation

Dimethyl 2-methylglutarate

Rabbit
No ocular irritation
Method: OECD Trial Guide 405
Unpublished internal report

Respiratory or skin allergy

Dimethyl 2-methylglutarate

Local lymph node test – mice
Does not cause skin allergies.
Method: OECD Trial Guide 429

Mutagenicity

Unpublished internal report

In vitro genotoxicity
Dimethyl 2-methylglutarate

Ames trial
With or without metabolic activation

negative
Method: Internal reports of
OECD Trial Guide 471 were not
disclosed.

Species for in vitro chrom-
osomal aberration testing:
Human lymphocytes with or
without metabolic activation.

negative
Method: Internal reports not

disclosed under OECD Trial
Guide 473

Intracellular genotoxicity

Dimethyl 2-methylglutarate

In vivo micronucleus assay-mice

Male and female

Intraperitoneal pathway
Method: OECD Trial Guide 474

Equivocal
Unpublished internal report

Carcinogenicity

No data available

**Reproductive toxicity and developmental
toxicity**

Reproductive/ fertility toxicity

Dimethyl 2-methylglutarate

Reproductive/Developmental Toxicity Screening Study – Rats (both male and female), oral
administration

No Observed Adverse Effect Level (NOEL) for Fertility: 1,000 mg/kg

Method: OECD Trial Guide 422

This product is generally not considered to affect fertility. No internal reports have been

Developmental toxicity/teratogenicity

Dimethyl 2-methylglutarate

Rats, female, administered orally

No Observed Adverse Effect Level (NOAEL) for general maternal toxicity: 300 mg/kg

No Observed Adverse Effect Level (NOAEL) for teratogenicity: 1,000 mg/kg

Method: OECD Trial Guide 414

No embryotoxic effects or teratogenic effects were observed, and no internal reports have been
disclosed.

Rabbit, female, orally administered

No Observed Adverse Effect Level (NOAEL) for general maternal toxicity: 100 mg/kg

No Observed Adverse Effect Level (NOAEL) for teratogenicity: 300 mg/kg

Method: OECD Trial Guide 414

No embryotoxic effects or teratogenic effects were observed, and no internal reports have been
disclosed.

STOT

**Specific target organ system toxicity –
single exposure**

Dimethyl 2-methylglutarate

Routes of exposure: inhalation, skin contact, ingestion

According to the GHS standards, this substance or mixture is not classified as having organ
toxicity to specific targets (single exposure).

**Specific target organ system toxicity –
repeated exposure**

Dimethyl 2-methylglutarate

Routes of exposure: ingestion, inhalation

According to the GHS standards, this substance or mixture is not classified as having specific
target organ toxicity (repeated exposure).

Dimethyl 2-methylglutarate

Oral administration – in rats, both male and female

NOAEL: 300 mg/kg

Method: OECD Trial Guide 422

No significant harm to health is attributed to repeated exposure.

Unpublished internal report

Inhalation (aerosol) – 13-week study in rats, both male and female

NOAEC: 5 mg/l

Method: OECD Trial Guide 413

Systemic effect

No systemic toxicity was observed.

May affect the olfactory epithelium.

At a high level

Unpublished internal report

Inhalation (aerosol) – 13-week study in rats, both male and female

NOAEC: 0.04 mg/l

Method: OECD Trial Guide 413

No systemic toxicity was observed.

May affect the olfactory epithelium.

At a high level

Unpublished internal report

Human Body Exposure Experience

No data available

Inhalation hazard

No data available

Part 12: Ecological Information

12.1 Ecotoxicity

Water environment

Acute toxicity to fish

Dimethyl 2-methylglutarate

LC50 – 96 h: 46–100 mg/L – Semi-static test on *Oncorhynchus*

mykiss (rainbow trout)

Analysis Monitoring: Is

Method: OECD Trial Guidelines 203

Unpublished internal report

Harmful to fish.

Toxicity of acute aquatic rodents and other invertebrate species

EC50 – 48 h: > 100 mg/L – *Daphnia magna* (water 蚤)

Static test

Dimethyl 2-methylglutarate

Analysis Monitoring: Is

Method: OECD Trial Guidelines 202

Unpublished internal report

Non-toxic to aquatic invertebrates. (Half-maximal effect concentration > 100 mg/L) (EC/EL50)

Toxicity to aquatic plants

Dimethyl 2-methylglutarate

ErC50 – 72 h: > 60 mg/L – *Pseudokirchneriella subcapitata* (green algae);

static test

Analysis Monitoring: Is

Method: OECD Trial Guidelines 201

Unpublished internal report

Non-toxic to algae (Half-maximal effect concentration > 100 mg/L) (EC/EL50)

NOEC – 72 h: 60 mg/L – *Pseudokirchneriella subcapitata* (green algae);

static test

Analysis Monitoring: Is

Method: OECD Trial Guidelines 201

Unpublished internal report

No chronic adverse reactions were observed when the dose was equal to or less than the threshold of 1 mg/L.

Toxicity to microorganisms

Dimethyl 2-methylglutarate

EC50 after 3 hours: > 1,000 mg/L – Activated Sludge

Static test

Analysis Monitoring: No

Method: OECD Trial Guidelines 209

Unpublished internal report

Chronic toxicity of certain fish species

Dimethyl 2-methylglutarate

NOEC:> 2.50 mg/L – 28 days – Danio rerio (zebrafish)

Semistatic Test

Analysis Monitoring: Is

Method: OECD Trial Guidelines 215

Unpublished internal report

No chronic adverse reactions were observed when the dose was equal to or less than the threshold of 1 mg/L.

Toxicity of chronic fleas and other aquatic invertebrates

No data available

12.2 Durability and Degradability**Non-biodegradable**

No data available

biodegradability**biodegradability**

Dimethyl 2-methylglutarate

Biodegradability study:

Method: OECD Trial Guide 301 B

77 % – 28 days

Meets the 10-day deadline requirement.

This substance meets the requirements for ultimate oxygen-consuming biodegradability and rapid biodegradability, with a theoretical CO₂ production capacity.

Unexposed inoculum: Activated sludge

Unpublished internal report

Biodegradability study:

Method: OECD Trial Guide 301

91.95 % – 28 days

meets the 10-day deadline requirement.

This substance meets the requirements for ultimate oxygen-consuming biodegradability and rapid biodegradability, with a theoretical CO₂ production capacity.

Unexposed inoculum: Activated sludge

Unpublished Report

Biodegradability Assessment

Dimethyl 2-methylglutarate

This product is considered to degrade rapidly in the environment.

12.3 Biological accumulation potential**Octanol/water partition coefficient**

Dimethyl 2-methylglutarate

No potential bioaccumulation

Bioaccumulation Factor (BCF)

No data available

12.4 Mobility in soil**Adsorption capacity (Koc)**

No data available

The distribution in the environment is known.

No data available

12.5 Evaluation results for PBT and vPvB

Dimethyl 2-methylglutarate

This substance is not considered to possess persistence, bioaccumulation, or toxicity (PBT).

This substance is not considered to exhibit high persistence or high bioaccumulation (vPvB).

12.6 Other harmful effects**Ecotoxicity Assessment****Acute (short-term) aquatic hazards**

Dimethyl 2-methylglutarate

Harmful to aquatic organisms.

Chronic aquatic hazard Dim-

ethyl 2-methylpentanedioate

This product has shown no known long-term adverse effects on aquatic organisms following testing.

Part 13: Waste Disposal**13.1 Waste Treatment Methods****Product Disposal****prohibit**

- Do not discharge directly into the environment.

- Process according to local regulations.

Recommendations for packaging cleaning and disposal**prohibit**

- Untreated packaging materials must not be disposed of together with industrial waste.

- It cannot be disposed of as household waste.

- Drain the remaining contents.
- Clean with steam.
- Clean with detergent. Avoid using solvents.
- Monitor residual vapor.
- Dispose of the cleaning water in accordance with local and national regulations.
- The container cannot be cleaned and must be disposed of as waste.
- Send the contents/containers to an approved waste treatment facility for disposal.
- Process according to local regulations.
- Where possible, prioritize recycling over disposal or incineration methods.
- Materials to be recycled must be completely dry and free of contaminants.

Part 14: Transportation Information

CN_DG

Unregulated

IMDG

Unregulated

IATA

Unregulated

Note: The aforementioned regulations remain legally effective as of the date of publication of this manual. Given potential changes to hazardous materials transportation regulations, it is advisable to verify their current validity in consultation with the sales department.

Part 15: Regulatory Information

15.1 Specific Regulations/laws Pertaining to the Safety, Health, and Environmental Aspects of This Substance or Mixture

The latest versions of the following laws, regulations, and standards specify corresponding requirements for the classification, Safety Data Sheet

- Classification of Chemicals and Public Disclosure of Hazardity – General Principles, GB 13690
- The series of standards governing chemical classification, warning labels, and precautionary statements: GB30000.2–GB30000.29
- Provisions for the Preparation of Chemical Safety Labels, GB 15258
- Chemical Safety Data Sheet – Content and Item Sequence, GB/T 16483
- Decree of the State Council of the People's Republic of China (No.591): Regulations on the Safety Management of Hazardous Chemicals
- GB 12268: List of Names of Hazardous Goods
- GB 6944: Classification of Dangerous Goods and Name Codes

Status Notification

List Details	State
United States TSCA Inventory	- All active substances listed in the TSCA catalog
Canadian Domestic Substances List (DSL)	- Has been included in the Chemical List
Australian Inventory of Industrial Chemicals	- List of substances; We have not yet determined whether this product contains any substances subject to regulatory obligations and/or restrictive policies.
Japan. CSCL - Inventory of Existing and New Chemical Substances	- Has been included in the Chemical List
Korea. Korean Existing Chemicals Inventory (KECI)	- Has been included in the Chemical List
China. Inventory of Existing Chemical Substances in China (IECSC)	- Has been included in the Chemical List
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	- One or more compounds are not listed in the chemical registry.
Taiwan Chemical Substance Inventory (TCSI)	- Has been included in the Chemical List
New Zealand. Inventory of Chemical Substances	- All components are listed in the New Zealand Chemical List. (NZIoC) Product Catalog. Additional obligations may apply under the Hazardous Substances and New Organisms Act (HSNO). Refer to Chapter 15 of the New Zealand Safety Data Sheet (SDS).
EU. European Registration, Evaluation, Authorization and Restriction of Chemical (REACH)	- When purchased from a Mr Tek entity within the European Economic Area (EEA), this product complies with the registration requirements under Article 1907/2006 of the REACH Regulation (EC), which stipulates that no specific ingredients may be included and are exempt from or require registration. For purchases from entities outside the EEA, please

Korea. Act on Registration and Evaluation of Chemicals	- If purchased from a Mr Tek entity in South Korea, this product complies with the Chemical Registration and Evaluation Act (AREC or K-REACH, Article 10), meaning all components are excluded, exempted, and/or pre-registered. For purchases from entities outside South Korea, please contact your local sales representative for further information.
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Part 16: Other Information

Full Text of the H-Description

- H320: Causes eye irritation.
- H402: Harmful to aquatic organisms.

Abbreviations and initialisms used in the safety technical data sheet

- ADR: European Agreement on the International Road Transport of Dangerous Goods.
- ADN: The European Agreement on the International Transport of Dangerous Goods by Waterway.
- RID: The European Agreement on the International Railway Transport of Dangerous Goods.
- IATA: International Air Transport Association.
- ICAO-TI: Technical Regulations for the Safe Air Transport of Dangerous Goods.
- IMDG: International Maritime Code for the Transport of Dangerous Goods by Sea.
- TWA: Time-weighted average
- ATE: Estimated value for acute poisoning
- EC: Number assigned by the European Commission
- CAS: Chemical Abstracts Service.
- LD50: The drug dose that causes death in half (50%) of the experimental animal group.
- LC50: The drug concentration that causes death in half (50%) of the test animal group.
- EC50: The effective concentration of a substance that produces 50% of the maximum effect.
- PBT: Persistent, bioaccumulative, and toxic substances.
- vPvB: High persistence and strong bioaccumulation potential.
- GHS/CLP/SEA: Classification, labeling, and packaging regulations
- DNEL: Invalid derived dose
- PNEC: Predicted Ineffective Concentration
- STOT: Specific target organ toxicity

This Safety Data Sheet (SDS) does not reference all of the aforementioned acronyms.

As of the date of issuance of this Safety Data Sheet, to the best of our knowledge and information, the information provided herein is accurate. This information is intended solely for use under appropriate safety conditions to guide users in handling, using, processing, storing, transporting, disposing of, and releasing the product; it shall not be construed as a guarantee or quality standard. This sheet should be used in conjunction with the technical data sheet but cannot replace it. Therefore, this information applies only to the specified product; if the product is mixed with other materials or used in another manufacturing process, this data sheet may become invalid, unless otherwise specified. This sheet does not relieve users of their obligation to comply with all applicable regulations governing their activities.