

Material Safety Data Sheet

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1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Product name COOLACT 10
 Company TAKASAGO INTERNATIONAL CORPORATION
 Department QUALITY ASSURANCE DEPARTMENT
 Address 37-1, Kamata 5-chome, Ota-ku, Tokyo, Japan
 Telephone No. +81-3-5744-0529
 FAX No. +81-3-5744-0597
 Emergency phone No. +81-3-5744-0785
 Intended use Not intended for personal use in this concentration.
 For manufacturing use only.
 MSDS form No. 201CH950QAD369-001

2. HAZARDS IDENTIFICATION

GHS hazard classifications

PHYSICAL HAZARDS Not available

HEALTH HAZARDS Not available

ENVIRONMENTAL HAZARDS Not available

*[Classification not possible] or [Not Classification] is the Hazards Category which is NOT written on the above.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Aroma/Fine chemical		
Chemical name/general name	3-l-Menthoxopropane-1, 2-diol		
Composition ingredient			
Ingredients Name	CAS-Number	Range of concentrations	
3-l-Menthoxopropane-1, 2-diol	87061-04-9	≥98.0%	

4. FIRST-AID MEASURE

If INHALED Remove to a place with fresh air and keep at rest in a comfortable position, and obtain medical advice if necessary.
 Maintain normal body temperature by covering the with a blanket or the like.
 Remove all contaminated clothing or protectors from the immediately.
 Rescuer should be careful to prevent from touching hazardous material by wearing gloves or the like.

In case of SKIN contact Remove all contaminated clothes and shoes or the like from the immediately. If necessary, sever them. Wash product contact area with running cold/lukewarm water. Wash them away using a soap. If there is observable change in appearance or continued pain, get medical advice/attention immediately.
 Treat the product by keeping away from fire as this product is flammable.

In case of EYE contact Flush eyes well with a large amount of running clean water for at least 15 minutes, followed by immediate medical attention. When flushing eyes, be sure to hold eyelids open well with sterilized fingers to completely rinse the eyes including eyeballs and eyelids.
 When wear contact lenses, keep rinsing eyes after taking them off as

far as product does not adhere to them(or contact lenses adhere to eyes).

If SWALLOWED

Rinse mouth with water and have drink one or two cups of water or milk to dilute the product. Immediately get medical advice/attention. If necessary, administrate artificial respiration / oxygen inhalation. Never give anything by mouth to an unconscious

Special protective equipment
for first-aid responder

Wear protective gloves/protective clothing/eye protection/face protection.

5. FIRE-FIGHTING MEASURE

Extinguishing media

Fire extinguishing powder agent, foam extinguishing agent, carbon dioxide, sands

Inappropriate media

Do not use water for fire extinguishing.

Specific hazards

Not known

Any precaution to be taken

Start fire fighting at the windward as far as possible.

Prohibit nonessential personnel from going into the surrounding area where fire starts.

In case fire starts in the surrounding area, remove portable container to safe area.

Special protective equipment
for fire-fighters

Start fire fighting from windward, avoid inhaling harmful gases.

Wear suitable protective equipment (gloves, eye glasses, masks) in occasion.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Prohibit nonessential personnel from going into the spilled area by enclosing the area with ropes.

Do not touch spilled product without suitable protection (rubber glove, protective glasses, protective clothing, etc.)

Environmental precautions

Be careful that the spilled product is flowed into the water such as river, resulting in adverse effects on the environments.

Methods and materials for
containment and cleaning up

(Decontamination) Scoop up leaked spillage, and then collect them with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container such as paper bag or drum for disposal according to local / national laws and regulations.

In case of large amount of spillage, enclosed by embankment to prevent it from flowing out, and treat it after introducing it into safe area.

In case of small amount of spillage (liquid), have it be absorbed with the spilled product with dry sands, soil, vermiculites, waste cloth or other incombustible absorbents (designated according to the property of the product), and recovered into sealable, empty container.

(Neutralization) Collect liquid in an appropriate container or absorb with an inert material (e.g. vermiculite, earth, etc.) and place in a chemical waste container.

Prevention of second disaster

Remove ignition source around the product (flammable liquid) and prepare fire extinguishing agent.

Use safety equipment which do not spark.

7. HANDLING AND STORAGE

Handling

Technological countermeasure

Handle the product in a well-ventilated place.
 Avoid leaking, spilling, dispersing, and also prevent the evolution of excess amount of steam.
 Prevent the product from contacting skin, mucous membrane, clothing, or entering eyes.
 Do not eat, drink or smoke except for at the designated places.
 Handle product with appropriate protective equipment such as protective eye glasses or protective gloves.
 Fire Strict Prohibition. Electric equipment should not be source of ignition caused by static electricity or spark, etc. as well as being explosion-proof structure.

Ventilation requirements

Handle the product in a local exhaust equipment, or in a place where whole ventilation system is installed.

Safe handling

Equipment should have explosion-proof structure, and take measures to prevent the build up of electrostatic charge in the facility.

Storage

Storage conditions

Store indoors at 25.0°C (77.0 F) or less, if possible, preferably around 15.0°C (59.0 F) in dry, well ventilated and dark conditions, in full sealed containers. Keep away from sources of ignition.

Material of vessels/packages

Use the same material as the container of this products

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Permissible Exposure Limits (PELs)

Ingredients Name

3-l-Menthoxyp propane-1,2-diol

Japan. OELs - ISHL

Japan. OELs - JSOH

ACGIH-TLV

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Engineering control

Install equipment for washing eyes and body near handling area.
 In case steam, fume or mist evolves in the handling area, install local exhaust equipment there.

Personal protection equipment

Respiratory protection

Dust mask, simple dust mask

Hand protection

Protective gloves

Eye protection

Safety goggle

Skin protection

Protective clothing

Protective boots

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical properties

Description

Colorless and odorless viscous liquid.

Odor

Almost no odor.

Flash point

174.0°C

open cup

Explosive range

Not available

Specific gravity at 20/20 degC

0.992 - 1.004

Solubility

Water insoluble

10. STABILITY AND REACTIVITY

Stability

Stable under ordinary conditions of use and storage

Possibility of

Not available

hazardous reaction

Conditions to avoid

Not available

Incompatible materials

Not available

Hazardous decomposition

Carbon dioxide and carbon monoxide

11. TOXICOLOGICAL DATA

Acute toxicity	Oral	Rat	>2000mg/kg	1)
	Dermal		Not available	
	Inhalation(Vapor)		Not available	

12. ECOLOGICAL INFORMATION

Toxicity	
Toxicity to fish	Not available
Toxicity to daphnia	Not available
Toxicity to algae	Not available

13. DISPOSAL CONSIDERATION

Residue	Comply with local regulations for waste disposal.
Disposal container and methods	Empty containers should be washed thoroughly with detergent before being sent for reconditioning or disposal. The washings should be treated as trade effluent or special waste as appropriate.

14. TRANSPORT INFORMATION

International transport regulations	
IMDG information	
UN number	Not restricted
IATA information	
UN number	Not restricted

15. REGULATORY INFORMATION

Japan (ENCS)	This product is listed on the ENCS Inventory.
USA (TSCA)	This product is listed on the TSCA Inventory.
EU (EINECS/ELINCS)	This product is listed on the EINECS Inventory.
Canada (DSL/NDSL)	This product is listed on the DSL Inventory.
Australia (AICS)	This product is listed on the AICS Inventory.
Korea (ECL)	This product is NOT listed on the ECL Inventory.
China (IECSC)	This product is listed on the IECSC Inventory.
Philippines (PICCS)	This product has been notified.

16. OTHER INFORMATION

Reference literature
1) TAKASAGO data

The information contained in this Material Safety Data Sheet is obtained from reputable sources. However, this data is provided without any warranty, express or implied, regarding its accuracy. It is the user's responsibility both to determine safe condition for use of this product and to assume liability for loss, injury, damage, or expense resulting from improper use of this product.