



ARCTIC MX Cleaner-Wipes for removing Thermal Compounds

Safety Datasheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Date: 1-October-2023

Section 1: Identification of the substance/mixture and of the company

1.1 Product Identifier

Commercial Name: MX Cleaner-Wipes for removing Thermal Compounds
Brand: ARCTIC
Part No.: ACTCP00033A

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

Use of the substance or mixture: Cleaning for Thermal interface material

Uses advised against: None known

1.3 Details of the Supplier of the Safety Data Sheet

Company:

ARCTIC (HK) Ltd.
Unit 1302-05, The Octagon
No.6 Sha Tsui Road
Tsuen Wan, New Territories
Hong Kong
Email address: info@arctic.de

1.4 Emergency telephone Number

German Tel :+49 531 60945294

Section 2: Hazards identification

WHMIS Classification

B3	Combustible Liquid	Combustible Liquid
D2B	Toxic Material Causing Other Toxic Effects	Moderate skin irritant Skin sensitiser

GHS Classification

Flammable liquids (Category 3)

Skin irritation (Category 2)

Skin sensitization (Category 1)

Aquatic Acute (Category 1)

Aquatic chronic (Category 1)

GHS Label elements, including precautionary statements

Pictogram	
Signal word	Warning



Hazard statement(s)

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.

Precautionary statement(s)

P273	Avoid release to the environment.
P280	Wear protective gloves.

HMIS Classification

Health hazard:	2
Flammability:	2
Health hazard:	0

Potential Health Effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.
Ingestion	May be harmful if swallowed.

Section 3: Composition/information on Ingredients

Synonyms: (±)-Limonene (p-Mentha-1,8-diene)
Formula: C₁₀H₁₆
Molecular Weight: 136.23 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
138-86-3	205-341-0	601-029-00-7	<=100%

Section 4: First aid measures

Acute and delayed symptoms

Applied to skin may cause irritation from contact dermatitis.

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

If skin irritation occurs

Get medical advice/attention.

**If skin irritation or rash occurs**

Get medical advice/attention.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

If on hair

Wash with plenty of soap and water.

Section 5: Firefighting measures

Conditions of flammability

Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters

Wear self-contained breathing apparatus for fire-fighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Explosion data - sensitivity to mechanical impact

no data available

Explosion data - sensitivity to static discharge

no data available

Further information

Use water spray to cool unopened containers.

Section 6: Accidental release measures

Personal precautions

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).



Section 7: Handling and Storage

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. The storage must not take place together with self-igniting substances.

Section 8: Exposure Controls/Personal Protection

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material:	Nitrile rubber
Minimum layer thickness:	0.4 mm
Break through time:	480 min
Material tested:	Camatril® (KCL 730 / Aldrich Z677442, Size M)

Splash contact

Material:	Nitrile rubber
Minimum layer thickness:	0.11 mm
Break through time:	30 min
Material tested:	Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Complete suit protecting against chemicals, flame retardant antistatic protective clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.



Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Wash face/hands/ exposed skin thoroughly after handling. Wash contaminated clothing before reuse.

Specific engineering controls

Use mechanical exhaust or laboratory fume-hood to avoid exposure.

Section 9: Physical and Chemical Properties

Appearance

Form	Liquid
Colour	no data available

Safety data

pH	no data available
Melting point/freezing point	Melting point/range: -89 °C (-128 °F)
Boiling point	170 - 180 °C (338 - 356 °F) - lit.
Flash point	43 °C (109 °F) - closed cup
Ignition temperature	237 °C (459 °F)
Auto-ignition temperature	no data available
Lower explosion limit	0.7 % (V)
Upper explosion limit	6.1 % (V)
Vapour pressure	1 hPa (1 mm Hg) at 20 °C (68 °F)
Density	0.86 g/mL at 20 °C (68 °F)
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Relative vapour density	4.7 - (Air = 1.0)
Odour	no data available
Odour Threshold	no data available
Evaporation rate	no data available

Section 10: Stability and Reactivity

Chemical Stability:

Stable under recommended storage conditions.

Possibility of hazardous reactions:

no data available

Conditions to avoid:

Heat, flames and sparks.

Materials to avoid:

Strong oxidizing agents.

Hazardous decomposition products:

Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - no data available



Section 11: Toxicological Information

Oral LD50

LD50 Oral - rat - 5,300 mg/kg

Inhalation LC50

no data available

Dermal LD50

no data available

Other information on acute toxicity

no data available

Skin corrosion/irritation

Skin - rabbit - Skin irritation - 24 h

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

May cause allergic skin reaction.

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Reproductive toxicity

no data available

Teratogenicity

no data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.



Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects

no data available

Additional Information

RTECS: OS8100000

Section 12: Ecological Information

Toxicity

Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 80 mg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 17 mg/l - 48 h

Persistence and degradability

no data available

Bio-accumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life.

Section 13: Disposal Considerations

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

The product must not be disposed of with household waste and not through the sewage system/water. The legal and official waste regulations must be observed.

Contaminated packaging

Dispose of as unused product.



Section 14: Transport Information

Road / Rail (ADR/RID)

Not subject to ADR/RID.

Sea transport (IMDG)

Not subject to IMDG code.

Air transport (IATA)

Not subject to IATA regulations.

Section 15: Regulatory Information

WHMIS Classification

B3	Combustible Liquid	Combustible Liquid
D2B	Toxic Material Causing Other Toxic Effects	Moderate skin irritant Skin sensitiser

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Section 16: Other Information

This product safety data sheet was prepared in compliance with article 31 and Annex II of the EU REACH Regulation as well as its relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labelling of dangerous substances and preparations.

It is the responsibility of persons in receipt of this Product Safety Data Sheet to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces a formulation containing the ARCTIC product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from the ARCTIC Product Safety Data Sheet to their own Product Safety Data Sheet in compliance with article 31 and Annex II of the EU REACH Regulation.

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS. ARCTIC shall not be held responsible for any defect in the product covered by this SDS, should the existence of such defect not be detectable considering the current state of scientific and technical knowledge.

As stated above, this Safety Data Sheet has been prepared in compliance with applicable European law. If you purchase this material outside Europe, where compliance laws may differ, you should receive from your local ARCTIC supplier a SDS applicable to the country in which the product is sold and intended to be used. Please note that the appearance and content of the SDS may vary - even for the same product - between different countries, reflecting the different compliance requirements.

Should you have any question, please refer to your local ARCTIC supplier.

Source of information: Internal data and publically available information
H226 Flammable liquid and vapour.