

In accordance with GB/T 16483-2008、GB/T 17519-2013

Preparation Date: January 18th, 2021**SECTION 1: Product and company identification**

- **Product name:** MISUMI MPCL840
- **Product Description:** Misumi parts cleaner
- **Manufacturer/Supplier:**
 Manufacturer: Langfang Joson Fine Chemicals Co., Ltd
 Address : Feitian Industry Park, Jinbao Road, West to Dacheng County Seat, Langfang City,
 Hebei Province, 065900 P.R.China
 Tel.: +86-316-5195581
 Fax.:+86-316-5579828
- **Emergency telephone number:** +86-316-5195581
- **Relevant identified uses of the substance or mixture and uses advised against:** parts cleaner

SECTION 2: Hazards identification

- **Emergency overview:**
Colorless transparent liquid, specific odour. Extremely flammable aerosol, Gas and vapor can form explosive mixture with air. Pressurized container: may burst if heated;

- **GHS Classification:**

	Hazards	Classification
Physical	AEROSOLS	Category 1
Health	Skin corrosion/irritation	Category 2
	STOT (single exposure)	Category 3 (anesthesia)
Environment	Aquatic - acute hazard	Category 2
	Aquatic - long-term hazard	Category 2

Other hazards not mentioned above: not applicable, not classified or not classifiable.

- **GHS Label elements:**

Pictogram:

Signal Word: Danger

Hazard Statement:

- Extremely flammable aerosol;
- Pressurized container: may burst if heated;
- Causes skin irritation;
- May cause drowsiness or dizziness;
- Toxic to aquatic life;
- Toxic to aquatic life with long lasting effects.

Precautionary Statements:

Prevention:

Keep out of reach of children. Read carefully and follow all instructions.

Wash hands thoroughly after handling.
 Avoid breathing dust/fume/gas/mist/vapours/spray.
 Use only outdoors or in a well-ventilated area.
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
 No smoking.
 Do not spray on an open flame or other ignition source.
 Do not pierce or burn, even after use.
 Avoid release to the environment.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER if you feel unwell.

IF ON SKIN: Wash with plenty water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention.

Collect spillage.

Storage: Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 50 °C. Store locked up.

Disposal: Dispose of contents/container in accordance with local/national regulations.

- **Physical and chemical hazards:** Extremely flammable aerosol. Vapors may form explosive mixture with air. Vapors are heavier than air, may travel low above the ground to distant areas. In contact with ignition sources burns or flashes back
- **Health hazards:** Causes skin irritation; May cause drowsiness or dizziness.
- **Environment hazards:** Toxic to aquatic life with long lasting effects.

SECTION 3: Composition/information on ingredients

 Substances

 Mixtures

Ingredients	Concentration (wt)%	CAS No.
Isohexane	60~70	107-83-5
Propane	20~30	74-98-6
Ethanol	10~20	64-17-5
n-Butane	≤5.0	106-97-8
Isobutane		75-28-5
Carbon dioxide	≤1.0	124-38-9
n-Hexane	≤0.6	110-54-3

Impurities and stabilizing additives contributing to the classification: none

SECTION 4: First aid measures

- **If inhaled:** Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER if you feel unwell.
- **On skin contact:** Wash with plenty water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention.
- **On contact with eyes:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

- **On ingestion:** Rinse mouth with water. Do not induce vomiting. seek medical attention if you feel unwell.
- **Most important symptoms and effects, both acute and delayed:** May cause drowsiness or dizziness.
- **Recommendation for first-aid responders:** The site shall be well ventilated, remove all ignition sources. Wear protective masks, rubber gloves and protective glasses..
- **Special notes to physicians:** No information.

SECTION 5: Firefighting measures

- **Suitable Extinguishing media:** dry powder, carbon dioxide, water spray
- **Unsuitable extinguishing media:** No information.
- **Special hazards arising from the substance or mixture:**
Gas and vapor can form explosive mixture with air.
In case of heat, the compressed gas in the container expands rapidly, resulting in the increase of internal pressure and explosion.
- **Special firefighting method:**
Isolate the area at a safe distance based on influence area of liquid flow and vapor diffusion.
Remove all ignition sources.
Quickly remove the surrounding combustible materials.
Remove container to safe place if safe to do so.
Otherwise cool the containers and surrounding facilities, etc. with water spray.
Extinguish fire from upwind.
Evacuate people at downwind direction.
Evacuate people to safe distance, leave the material to burn, if safety can not be guaranteed.
- **Protection of fire fighters:**
Wear self-contained breathing apparatus and chemical-protective clothing.

SECTION 6: Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**
Isolate the spillage area at a safe distance based on influence area of liquid flow and vapor diffusion.
Keep ventilation of the leakage area until the end of treatment.
Attention: gas and air form explosive mixture, which may cause explosion in case of contacting sparks, electrostatic spark, open flame and high temperature.
Use non-sparking tools.
All equipment used in operation shall be grounded.
Eliminate all ignition sources. No open fire, smoking or sparks are allowed in the leakage area.
- **Environmental precautions:**
Do not empty into drains. Do not discharge into the subsoil/soil.
- **Methods and material for containment and cleaning up:**
Water spray can be used to dilute the leaked gas and spray.
Report to fire department for help.

- Precautionary measures to prevent the occurrence of secondary hazards:

Immediately eliminate all ignition sources (no spark, flame, smoking at nearby).
Evacuate people at downwind direction.

SECTION 7: Handling and storage**- Precautions for safe handling:**

Technical Measures:

- Use only outdoors or in a well-ventilated area.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Remove all ignition sources.
- Stay upwind as much as possible when handling outdoors;
- Keep away from heat and other ignition sources. No smoking.
- Use explosion-proof electrical and lighting equipment.
- Ground and bond container and receiving equipment.
- Take action to prevent static discharges.
- Provide eye wash facilities and safety shower for emergency near the workplace where the product is handled.
- Equip with appropriate fire fighting equipment and leakage emergency equipment.

Precautions:

- Load containers in a way of no overturning, falling, damage and secure prevention of cargo collapse.
- Avoid throwing, falling, colliding or dragging containers.

- Conditions for safe storage, including any incompatibilities:

- Store in cool, dry and well-ventilated place;
- Avoid direct sunshine;
- Keep away from sources of ignition and heat;
- Store room temperature is recommended 10~40°C;
- Store locked up;
- Keep out of reach of children;
- Store separately from oxidants, acids and foods.

SECTION 8: Exposure controls/personal protection**- Occupational exposure limit:**

ACGIH (2019):

- Carbon dioxide: PC-TWA:9000 mg/m³, PC-STEL:18000 mg/m³.
- n-Hexane: PC-TWA:100 mg/m³, PC-STEL:180 mg/m³(can be absorbed through intact skin).
- Biological limit: Not established.

- Appropriate engineering controls:

- Take measures to prevent static electricity.
- Use local exhaust system to keep the concentration in the air below the occupational exposure limit.
- Use explosion proof electrical/ventilation/lighting equipment.

Only use tools that do not produce sparks.

Keep away from heat sources/sparks/open flames/hot surfaces. No Smoking.

- Individual protection measures:

Respiratory protection: Wear protective masks against organic solvents where necessary.

Hand protection: Wear protective gloves.

Eye protection: Wear safety glasses.

Skin/body protection: Wear chemical protective clothing / anti-static clothing.

Hygiene measures: Do not eat, drink or smoke when using this product. Wash hands, face and gargle after operation.

SECTION 9: Physical and chemical properties

Appearance:	Colorless transparent liquid
Odour:	Specific
Odour threshold:	Not available
pH:	5.0~6.0
Melting point/freezing point	Not available
Initial boiling point:	Not available
Flash point:	1°C(closed cup)
Flammability(solid, gas):	Not applicable
Upper/lower flammability or explosive limits	1.0~7.0 vol%(Isohexane), 2.1~9.5 vol%(Propane), 3.3~19vol%(Ethanol)
Vapor pressure:	Not available
Vapor density:	3(Isohexane), 1.6(Propane), 1.6(Ethanol)
Evaporation rate:	Not available
Relative Density (water=1):	0.66±0.02 (15°C)
Solubility in water:	Partially soluble
Partition coefficient: n-octanol/water:	Not available
Auto-ignition temperature:	264 °C(Isohexane), 450°C (Propane), 363°C (Ethanol)
Decomposition temperature:	Not available
Viscosity:	Not available

SECTION 10: Stability and Reactivity

- **Chemical stability:** The product is stable if stored and handled as prescribed/indicated.
- **Possibility of hazardous reactions:** None known.
- **Conditions to avoid:** High temperature, direct sunshine, ignition sources.
- **Incompatible materials:** Strong acid, strong oxidizer.
- **Hazardous decomposition products:** Carbon oxide.

SECTION 11: Toxicological information

- **Acute toxicity:** ATEmix>2000 mg/kg (oral, dermal)
- **Skin irritation or corrosion:** Isohexane is irritant to skin, category 2.

- **Eye irritation or corrosion:** No information.
 - **Respiratory/Skin sensitization:** No information.
 - **Germ cell mutagenicity:** No information.
 - **Carcinogenicity:** no information.
 - **Reproductive toxicity:** No information.
 - **STOT(single exposure):** Isohexane causes anesthesia, category 3.
 - **STOT (repeated exposure):** no information.
 - **Aspiration hazard:** no information.
- STOT:** Specific Target Organ Toxicity

SECTION 12: Ecological information

- **EcoToxicity:** Isohexane is toxic to environment, aquatic acute and chronic toxicity category 2.
- **Persistence and degradability:** no information.
- **Bioaccumulative potential:** no information.
- **Mobility in soil:** no information.
- **Ozone layer depletion:** no information.

SECTION 13: Disposal considerations

- **Waste disposal method:**

Residual waste: Dispose it by observing the related laws and regulations. It is not allowed to discharge the wasted chemical directly to sewage.

Contaminated packaging: should be punctured to ensure that it can not be reused, then dispose according to national and local regulations. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static, electricity, or other sources of ignition, as the residue may cause explosion.
- **Dispose of waste in accordance with local, state and federal regulations.**

SECTION 14 Transport Information

- **UN Recommendations:**
 - UN Number : 1950
 - UN Proper shipping name : AEROSOLS
 - Transport hazard class : 2.1
 - Packing group : Not applicable
 - Marine pollutant: Yes
 - Limited Quantity of DG: 1000mL
- **Special safety measures and conditions for transportation:**
 - Confirm no damages, corrosion and leakages of containers before transport.
 - Load containers in a way of no overturning, falling, damage and secure prevention of cargo collapse.
 - Protected from sunlight, rain and high temperature during transportation.
 - Keep away from fire, heat and high temperature areas during stopovers.
 - Road transportation should be according to the specified route, and do not stay in residential

areas and densely populated areas.

Transportation should in accordance with national and local regulations.

SECTION 15: Regulatory information

- Applicable Regulations:

Regulations and standards below have requirements for chemicals' safe usage, storage, transportation, import/export, classification and labeling.

Chinese 「Decree on Dangerous Chemical Safe Management」 (Decree No. 591, year 2011);

China 「Law on the Prevention and Control of Occupational Diseases」 (revised in 2017);

The serial Safety Rules for classification, precautionary labeling and precautionary statement of chemicals The Classification,(GB 30000.x-2013);

‘List of Dangerous Goods’(GB 12268-2012):	Listed;
‘Catalogue of Hazardous Chemicals’ (Ver. 2015):	Listed;
‘List of Toxic Chemicals Banned or Severely Restricted’(Ver. 2020):	Not listed;
‘China controlled ozone layer depleting substance list’(Ver. 2010):	Not listed;
‘Catalogue of Hazardous Chemicals for Priority Management’ (V. 2013):	Not listed;
‘Precursor chemicals classification and catalogue’ (Ver. 2017) :	Not listed;
‘List of hazardous chemicals Liable to produce explosives’(Ver. 2017):	Not listed;
‘List of Monitored Chemicals (Chemical Weapon)’(ver. 2020):	Not listed.

- **Label Information:** Please see section 2.

- Please pay attention to local waste management and other applicable regulations.

SECTION 16: Other information

- Reference:

- 1) Implementation Guideline (Trial) for‘Catalogue of Hazardous Chemicals’ (Ver. 2015):
- 2) ICSC

- Abbreviations and Acronyms:

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

PC-TWA:permissible concentration-time weighted average)

PC-STEL:permissible concentration-short term exposure limit

ATE: Acute Toxicity Estimate.

- Disclaimer:

Information in the SDS is solely intended for this product, unless otherwise specified, not applicable to mixtures of this product with other substances, etc.. The SDS only aims at providing information for safe usage of the product to appropriately trained users. User of the SDS should judge independently whether information on the SDS is applicable to their specific usage conditions. Writer of the SDS is not responsible any harms resulted from usage of the SDS for using the product under specific conditions.

The English version SDS is prepared by Randis ChemWise www.randis.cn