

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006, Article 31



KMC GO Chain Wax

Version: 1.0

Date of issue: 11.07.2024

Date of revision: -

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name: **KMC GO Chain Wax**

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

Relevant identified uses: Chain lubricant.

Uses advised against: Not defined.

1.3 Details of the supplier of the safety data sheet

Manufacturer: KMC Chain Industrial Co., Ltd.

No. 41, Zhongshan Rd

Xinhua Dist.

Tainan City, 712003

Taiwan (R.O.C.)

Representative: KMC (KUEI MENG) International Inc.

8F-5, No.425, Jhonghua Rd.

Yongkang Dist.

Tainan City 71079

Taiwan (R.O.C.)

e-mail address of person responsible for this SDS: kmcweb@kmcchain.com

1.4 Emergency telephone number

Emergency number: 112

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008:

None.

2.2 Label elements

Hazard pictograms: none.

Signal word: none.

Hazard statements: none.

Precautionary statements: none.

2.3 Other hazards

The product does not meet the criteria for PBT/vPvB according to Regulation (EC) No. 1907/2006 Annex XIII. The mixture does not contain substances on the list established in accordance with Article 59(1) of REACH for endocrine disrupting properties or identified as having endocrine disrupting properties in accordance with the criteria laid down in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Substance name	CAS No/ EC No	Cont.[%]	Classification according to (EC) No 1272/2008 (CLP)
Ethylene glycol	107-21-1 203-473-3	1	Acute Tox. 4, H302 STOT RE 2, H373
Morpholine 01-2119496057-30	110-91-8 203-815-1	<1	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361fd

The full text for all H-phrases are displayed in Section 16

Contains: Paraffin waxes, Hydrocarbon waxes, Mineral oil

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: Remove person to fresh air.

Skin contact: Remove contaminated clothing and shoes. Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Ingestion: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

After ingestion: Nausea, vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: use extinguishing agent suitable for type of surrounding fire.

Unsuitable extinguishing media: none.

5.2 Special hazards arising from the substance or mixture

Hazardous toxic and irritating fumes or smoke may be emitted. Decomposition products may include the following materials: carbon dioxide, carbon monoxide.



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5.3 Advice for firefighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Special danger of slipping by leaking/spilling product. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution.

6.3 Methods and material for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Absorb with an inert dry material (sand, universal absorbent) and place in an appropriate waste disposal container. Wash off residue with water. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections

See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not ingest. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in original container. Keep in properly labelled containers. Keep container tightly closed. Keep away from extreme heat and cold.

7.3 Specific end use(s)

Follow the instructions for use on the product packaging.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

EH40/2005 Workplace exposure limits:

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Morpholine: Long-term exposure limit (8-hr) - 10 ppm, Short-term exposure limit (15 minute) - 20ppm

Ethane-1,2-diol: particulate: Long-term exposure limit (8-hr) – 10 mg/m³

vapour: Long-term exposure limit (8-hr) – 52 mg/m³, Short-term exposure limit (15 minute) – 104 mg/m³

DNEL, morpholine

worker: Long-term exposure - systemic effects, dermal: 0,84 mg/kg

worker: Long-term exposure - local effects, Inhalation: 36 mg/m³

PNEC, morpholine

freshwater: 0,163 mg/l

marine water: 0,0163 mg/l

intermittent release: 0,45 mg/l

sediment (freshwater): 1,83 mg/kg

sediment (marine water): 0,183 mg/kg

soil: 0,269 mg/kg

STP: 10 mg/l

Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

8.2 Exposure controls

If user operations generate vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures:

Respiratory protection: under normal conditions respiratory protection is not required. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Recommended filter type P2 (EN 14387).

Eye protection: Recommended tightly sealed goggles (EN 166).

Hand protection: Recommended use chemical-resistant gloves (butyl rubber, neoprene) in accordance with EN 374.

Body protection: Recommended working clothes.

Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Environmental exposure controls:

Do not discharge the product into soil, surface water or drains.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Physical state: liquid

Colour: beige

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Odour:	slight ammoniacal
Melting point/freezing point:	water based product, after evaporation of water approximate 70°C
Boiling point or initial boiling point and boiling range:	ca. 100°C
Flammability:	no data available
Lower and upper explosion limit:	no data available
Flash point:	no data available
Auto-ignition temperature:	no data available
Decomposition temperature:	no data available
pH:	9,5
Dynamic viscosity:	600 cP
Solubility:	fully miscible with water
Partition coefficient n-octanol/water:	no data available
Vapour pressure:	no data available
Relative density:	0,97
Relative vapour density:	no data available
Particle characteristics:	not applicable

9.2 Other information

None.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

Under normal conditions of storage and use the product is not reactive.

10.2 Chemical stability

Under normal conditions of storage and use the product is stable.

10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

High temperature.

10.5 Incompatible materials

Strong oxidisers.

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11. TOXICOLOGICAL INFORMATION

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

ATE (oral) >2000 mg/kg

ATE (skin) >2000 mg/kg

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ATE (inhalation) >20 mg/l

Irritation/Corrosion: No known significant effects or critical hazards.

Serious eye damage / eye irritation: No known significant effects or critical hazards.

Sensitization: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Carcinogenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Specific target organ toxicity — single exposure: No known significant effects or critical hazards.

Specific target organ toxicity — repeated exposure: No known significant effects or critical hazards.

Aspiration hazard: No known significant effects or critical hazards.

11.2 Information on other hazards

No data available.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Morpholine:

Toxicity to fish: LC50 (96 h) > 100 mg/l, *Oryzias latipes* (OECD 203)

Aquatic invertebrates: EC50 (48 h) 45 mg/l, *Daphnia magna* (OECD 202)

Aquatic plants: EC50 (72 h) 64,6 mg/l, *Pseudokirchneriella subcapitata* (OECD 201)

12.2 Persistence and degradability

Product is readily biodegradable - achieved >60% biodegradation after 28 days of testing as per the OCED 301B

12.3 Bioaccumulative potential

Bioaccumulation is not expected.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Not applicable.

12.6 Endocrine disrupting properties

Not applicable.

12.7 Other adverse effects

No known significant effects or critical hazards.

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SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product. The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Packaging. The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14. TRANSPORT INFORMATION

14.1 UN number or ID number: Not regulated for transport

14.2 UN proper shipping name: None

14.3 Transport hazard class(es): None

14.4 Packing group: None

14.5 Environmental hazards: NO

14.6 Special precautions for user: None

14.7 Maritime transport in bulk according to IMO instruments: None

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- EU Regulation (EC) No. 1907/2006 (REACH)
- EU Regulation (EC) No. 1272/2008 (CLP)
- Commission Regulation (EU) No. 2020/878

15.2 Chemical safety assessment

A chemical safety assessment is not required.

SECTION 16. OTHER INFORMATION

Classification of the mixture was carried out based on the calculation method and on the physicochemical properties according to Regulation (EC) No. 1272/2008.

List of abbreviations and acronyms:

CAS - Chemical Abstracts Service

DNEL - The derived no-effect level

EINECS - European Inventory of Existing Commercial Chemical Substances

ELINCS - European List of Notified Chemical Substances

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LC50 - The median lethal dose
EC - EINECS and ELINCS
PBT - Persistent, Bioaccumulative and Toxic
vPvB - very Persistent and very Bioaccumulative

Full text of abbreviated H statements:

H226 - Flammable liquid and vapour.
H302 - Harmful if swallowed.
H311 - Toxic in contact with skin.
H314 - Causes severe skin burns and eye damage.
H318 - Harmful if swallowed.
H331 - Toxic if inhaled.
H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child.
H373 - May cause damage to organs through prolonged or repeated exposure

Full text of classifications CLP:

Flam. Liq. 3 - Flammable liquid, category 3
Repr. 2 - Reproductive toxicity, category 2
Acute Tox. 3(4) - Acute toxicity, category 3(4)
Skin Corr. 1B - Skin corrosion/irritation, category 1B
Skin Irrit. 2 - Skin corrosion/irritation, category 2
Eye Dam. 1 - Serious eye damage/eye irritation, category 1
Eye Irrit. 2 - Serious eye damage/eye irritation, category 2
STOT RE 2 - Specific target organ toxicity - repeated exposure, category 2

Training advice for workers: see information contained in the Safety Data Sheet.

The information in this SDS is based on the present state of our knowledge and on current laws. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.