Material Safety Data Sheet

K-WAX INTERNATIONAL CO., LTD
No. 43, Sanlong St.,
Shulin Dist., New
Taipei City 238, Taiwan(R.O.C.)
Tel. 886-2-86883099

1. Product And Company Identification

Product Name: K-WAX ® Iron Remover

Responsible Party: K-WAX INTERNATIONAL CO., LTD
No.43, Sanlong St.,
Shulin Dist., New Taipei
City 238, Taiwan (R.O.C.)

Emergency Information: TEL. 886-2-86883099 FAX. 886-2-86883089
MSDS Date Of Preparation: 01/30/2018
Product Use and Uses Advised Against: Automotive maintenance product – For consumer and professional use

2. Hazards Identification

EMERGENCY OVERVIEW

WARNING: Harmful if swallowed. May cause sensitisation by skin contact

GHS Label Elements:

3. Composition/Information On Ingredients

Component	CAS No.	Amount
Metal Conditioner	68-11-1	20-25%
Ammonium hydroxide	1336-21-6	<20%
Citric Acid	77-92-9	<5%
Potassium hydroxide	1310-58-3	<5%
Water, dihydrogen oxide	7732-18-5	60-70%

4. First Aid Measures

Inhalation: If patient feels unwell, remove from exposure and keep warm and at rest. Ensure airways are clear and give oxygen if breathing is difficult. If symptoms persist, seek medical attention.

Skin Contact: Wash the affected area thoroughly with soap and water. If redness/irritation develops/persists, seek medical attention.

Eye Contact: Immediately irrigate with eyewash solution or clean water. Medical advice should be sought as a precautionary measure.

Ingestion: Wash out mouth and dilute ingested chemicals with plenty of milk or water. Do NOT induce vomiting. Seek medical attention.

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5. Firefighting Measures

*****This product is not flammable*****

Extinguishing Media: Foam, carbon dioxide, dry powder or water fog.

Special Fire Fighting Procedures: It is advisable that fire-fighters wear self-contained positive pressure breathing apparatus and full, chemical proof, turnout gear.

Unusual Fire Hazards: Closed containers may rupture if exposed to extreme heat.

Hazardous Combustion Products: Thermal decomposition giving flammable and harmful products: Hydrogen sulphide, methymercaptan, ethylmercaptan, sulphur oxides, carbon oxides.

6: Accidental Release Measures

Personal Precautions: Suitable personal protection should be worn whilst dealing with spillage/accidental release. Refer to section 8 for further details.

Environmental Precautions: Wash spillage area with water to dilute. Do not discharge into natural waters without pretreatment at a water waste/sewage/biological processing plant.

Small spills (<5L) May be washed down the drain with water
Large spills (>5L) Should be contained with absorbent material and disposed of professionally.

Methods for Containment and Clean-Up: Absorb with an inert material. Collect into a suitable container for disposal. Rinse area with water.

7. Handling and Storage

Handling: As with all chemical products, eye and skin protection are advisable if repeated exposure or splashing may occur. Use in a well a ventilated area and avoid inhalation of vapour or mists.

At all times, observe good hygiene and working practices i.e. wash hands prior to eating, drinking, smoking or using toilet facilities.

Storage: Store in original, closed containers, in a cool (20°C), dry and well ventilated area. Avoid sharp edges and other potential sources of puncture. Ensure product is stacked safely.

Avoid: Carbon steel, copper and copper alloys.

8. Exposure Controls / Personal Protection

CHEMICAL	EXPOSURE LIMIT
Metal Conditioner	None Established
Ammonia solution	TWA: 25 (ppm) from ACGIH (TLV)
Citric Acid	None Established
Potassium Hydroxide	CEIL: 2 (mg/m3) from ACGIH (TLV)
Water, dihydrogen oxide	None Established

Ventilation: General ventilation should be adequate for all normal use.

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Respiratory Protection: Not normally required due to low volatility. However, if the product is being used in an enclosed area, respiratory protection is advisable.

Gloves: None normally required. Avoid prolonged skin contact. Impervious gloves such as rubber, neoprene or nitrile can be used if needed to avoid prolonged or repeated skin contact.

Hand/Eye/Skin Protection: Hand, eye and skin protection should be worn if repeated exposure or splashing may occur. Contact with skin should be minimised, In case of spillage, rubber boots and PVC suit should be worn.

9. Physical and Chemical Properties

Appearance And Odor: Characteristic Colorless Liquid

pH: 6.5-7.0 @ 20°C (pH Neutral)		**Specific Gravity:** ~1.2
Boiling Point: 100°C (same as water)		**Vapor Pressure:** Same as water
Freezing Point: Not determined		**Vapor Density:** Same as water
Solubility In Water: Appreciable		**Percent Volatile:** Not applicable
Viscosity: Not determined		**Evaporation Rate:** Not determined
Coefficient Of Water/Oil Distribution: Not determined		**Autoignition Temp:** Not applicable
Flash Point: 95°C		
Flammability Limits:	LEL: Not applicable	UEL: Not applicable

10. Stability and Reactivity

Stability: Stable under normal conditions.

Conditions To Avoid: Excessive heat (more than 50°C) and cold. Direct sunlight.

Incompatibility: Strong oxidising agents, nitric acid

Hazardous Decomposition Products: Thermal decomposition giving flammable and harmful products: Hydrogen sulphide, methymercaptan, ethylmercaptan, sulphur oxides, carbon oxides.

11. Toxicological Information

Acute Hazards:

Inhalation: Low risk – not volatile. May cause irritation to the mucous membrane and upper airways. Symptoms of exposure may include sneezing and coughing.

Skin Contact: Low risk. May cause irritation and sensitisation when in contact with the skin. May result in redness and itchiness.

Eye Contact: Low risk. May cause irritation in contact with the eyes, which may result in redness, stinging and excessive tearing.

Ingestion: Medium risk. May cause nausea, vomiting and possible abdominal pain.

Carcinogen: None of the components is listed as a carcinogen or potential carcinogen by IARC, NTP, ACGIH or OSHA.

Acute Toxicity Values:

LD50 (oral, rat) 170-650 mg/Kg (adapted from OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)

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12. Ecological Information

Ecotoxicity: LC50 500mg/L (adapted from OECD Guideline 203 (Fish, Acute Toxicity Test)

Persistence and degradability: Easy to eliminate.

Biological degradability: > 90%

Bioaccumulative potential: Does not bioaccumulate.

Other adverse effects: None

13. Disposal Considerations

Dispose of according to relevant government regulations. Empty containers should be rinsed with water prior to disposal or recycling. If necessary, quantities greater than 5 Litres/Kilograms should be treated by a professional disposal company..

14. Transport Information

UN Number Proper shipping name Hazard Identification number Class Packing group.

Land transport: ADR/RID Not classified as dangerous for transport

Sea transport: IMDG Not classified as dangerous for transport

Air transport: IATA/ICAO Not classified as dangerous for transport

15. Regulatory Information

Hazard symbol(s)
Harmful Contains Ammonium Sulfanylacetate. May cause an allergic reaction.

R-phrase(s):
R22 Harmful if swallowed
R43 May cause sensitisation by skin contact

S-phrase(s):
S2 Keep out of the reach of children
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37 Wear suitable gloves
S46 If swallowed, seek medical advice immediately and show this container or label

Guiding information:
This product is classified, labelled and packaged according to the Chemicals (Hazard Information and Packaging

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for Supply) Regulations (United Kingdom) 2009 and to the Approved Classification and labelling Guide (Sixth Edition).

Additional reference has also been made to EC Directive 67/548/EEC (Dangerous Substances Directive) and conformity with EC Directive 1999/45/EC (Dangerous Preparations Directive) has been checked.

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent
authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

The information within this data sheet has been collated from EC regulation 790/2009 (amended 1272/2008), the CESIO recommendations for Anionic and Non-ionic surfactants (2006), the EH40/2005 Workplace Exposure limits, the
Detergent Ingredients Database (DID-list, maintained by Ecolabelling Norway on behalf of the European Commission),
CESIO recommendations for the classification and labelling of surfactants as “Dangerous for the Environment”,
REACH Registered Substances Database IUCLID5) and from ingredient safety data sheets.
The data should be considered when making any assessment under the Control of Substance Hazardous to Health (COSHH) Regulations.

16. Other Information

Full text of hazard symbols and R-phrases, if mentioned as hazardous components in section 3.
R25 Toxic if swallowed
R38 Irritating to skin
R41 Risk of serious damage to eyes
R43 May cause sensitisation by skin contac

REVISION SUMMARY: May 3, 2021 Update to GHS SDS format and name change: Changes to all sections.

DATA SUPPLIED IS FOR USE ONLY IN CONNECTION WITH OCCUPATIONAL SAFETY AND HEALTH