



SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
GB/T 16483-2008, GB/T 17519-2013

Product Name Aerosol Oil-Red (individual) Recharger Kit (kit)
Issuing Date 18-Nov-2021
(M)SDS Number UL-KN-001

Revision Date 18-Nov-2021
Revision Number 1

1. Identification

Product identifier

Product Name Aerosol Oil-Red (individual) Recharger Kit (kit)

Other means of identification

Product Code(s) 99-0606 (individual) 99-5050 (kit)

UN/ID no UN1719

Details of the supplier of the safety data sheet

Supplier

K&N Engineering, Inc.
1455 Citrus Street
Riverside, CA 92507
+1 469-805-6936

E-mail address dan.strick@knfilters.com

Emergency telephone number

Emergency telephone number CHEMTREC (China): 4001-204937

Recommended use of the chemical and restrictions on use

Recommended use Cleaning agent for car air filter

Restrictions on use No information available

2. Hazard(s) identification

Emergency Overview

CORROSIVE - CAUSES IRREVERSIBLE EYE (AND SKIN) DAMAGE
Risk of serious damage to eyes

Appearance Pink, Clear liquid **Physical state** Liquid **Odor** Characteristic

Classification of the substance or mixture

| | |
|---|---------------------------|
| Skin corrosion/irritation | Category 1 Sub-category B |
| Serious eye damage/eye irritation | Category 1 |
| Hazardous to the Aquatic Environment - Acute Hazard | Category 3 |
| Hazardous to the Aquatic Environment - Chronic Hazard | Category 3 |

Label elements

**Signal word**

Danger

Hazard statements

Causes severe skin burns and eye damage
Harmful to aquatic life with long lasting effects

Precautionary statements**Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Avoid release to the environment

Response

Immediately call a POISON CENTER or doctor
IF INHALED: Remove person to fresh air and keep comfortable for breathing
Immediately call a POISON CENTER or doctor
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower
Wash contaminated clothing before reuse
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a POISON CENTER or doctor
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

Storage

Store locked up

Disposal

Dispose of contents/ container to an approved waste disposal receptacle

Physical and chemical hazards

Not applicable.

Health hazards

Immediate Health Effects: Contact may cause burns to skin and eyes. Risk of serious damage to eyes. Impairment of vision.
Chronic effects: Not applicable.

Environmental hazards

This material is a water pollutant. Keep out of drains, sewers, ditches and waterways. Minimize use of water to prevent environmental contamination.

Other hazards which do not result in classification

Not applicable.

3. Composition/information on ingredients**Substance**

Not applicable.

Mixture

| Chemical name | CAS No | Weight-% |
|---------------------|-----------|----------|
| Sodium metasilicate | 6834-92-0 | 1-6 |
| Tetrasodium EDTA | 64-02-8 | 0.5-3 |

4. First-aid measures

Description of necessary first aid measures

| | |
|---|--|
| General advice | Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. |
| Inhalation | If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical advice/attention. Remove to fresh air. |
| Eye contact | Get immediate medical advice/attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. |
| Skin contact | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical advice/attention. |
| Ingestion | Get immediate medical advice/attention. Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. |
| Most important symptoms/effects, acute and delayed | Burning sensation. |
| For emergency responders | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8). |
| Note to physicians | Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. |

5. Fire-fighting measures

Extinguishing media

| | |
|---|--|
| Suitable Extinguishing Media | Dry chemical, CO2, water spray or regular foam. |
| Unsuitable extinguishing media | None known based on information supplied. |
| Specific hazards arising from the chemical | The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. |
| Hazardous combustion products | Carbon oxides. |
| Special protective actions for fire-fighters | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

| | |
|-----------------------------|--|
| Personal precautions | Attention! Corrosive material. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes or |
|-----------------------------|--|

| | |
|---|--|
| | clothing. Use personal protective equipment as required. |
| Other information | Refer to protective measures listed in Sections 7 and 8. |
| For emergency responders | Use personal protection recommended in Section 8. |
| Environmental precautions | Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. |
| Methods and material for containment and cleaning up | Prevent further leakage or spillage if safe to do so. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. |
| Precautions to prevent secondary hazards | Clean contaminated objects and areas thoroughly observing environmental regulations. |

7. Handling and storage

| | |
|--|--|
| <u>Precautions for safe handling</u> | In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Take off contaminated clothing and wash before reuse. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. |
| <u>Conditions for safe storage, including any incompatibilities</u> | Protect from moisture. Store away from other materials. Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. |
| Incompatible materials | Strong oxidizing agents. |

8. Exposure controls/personal protection

Occupational exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Monitoring and observation processes

No applicable information was found.

| | |
|-----------------------------|---|
| Engineering controls | Showers Eyewash stations Ventilation systems. |
|-----------------------------|---|

Individual protection measures, such as personal protective equipment

| | |
|---------------------------------------|---|
| Eye/face protection | Face protection shield. Tight sealing safety goggles. |
| Skin and body protection | Long sleeved clothing. Chemical resistant apron. Wear suitable protective clothing. |
| Hand protection | Impervious gloves. Wear suitable gloves. |
| Respiratory protection | No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. |
| General hygiene considerations | Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. |

9. Physical and chemical properties

Information on basic physical and chemical properties

| | |
|----------------|--------------------------|
| Appearance | Pink, Clear liquid |
| Physical state | Liquid |
| Color | Pink |
| Odor | Characteristic |
| Odor threshold | No information available |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|---|-------------------|-------------------------|
| pH | > 12 | No data available |
| Melting point / freezing point | | No data available |
| Initial boiling point and boiling range | | No data available |
| Flash point | | No data available |
| Evaporation rate | | No data available |
| Flammability | | No data available |
| Flammability Limit in Air | | |
| Upper flammability or explosive limits | | No data available |
| Lower flammability or explosive limits | | No data available |
| Vapor pressure | | No data available |
| Vapor density | | No data available |
| Relative density | 1.06 | No data available |
| Water solubility | Miscible in water | No data available |
| Solubility(ies) | | No data available |
| Partition coefficient | | No data available |
| Autoignition temperature | | No data available |
| Decomposition temperature | | No data available |
| Kinematic viscosity | | No data available |
| Dynamic viscosity | | No data available |

Additional information

| | |
|----------------------|---------------------------|
| Explosive properties | No information available. |
| Oxidizing properties | No information available. |

10. Stability and reactivity

| | |
|---|--|
| <u>Stability</u> | Stable under normal conditions. |
| <u>Possibility of hazardous reactions</u> | None under normal processing. |
| <u>Conditions to avoid</u> | Exposure to air or moisture over prolonged periods. Incompatible materials. |
| <u>Incompatible materials</u> | Strong oxidizing agents. |
| <u>Hazardous decomposition products</u> | Thermal decomposition can lead to release of irritating gases and vapors. Carbon oxides. |

11. Toxicological information**Information on likely routes of exposure****Product Information**

| | |
|--------------|---|
| Inhalation | Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal. Specific test data for the substance or mixture is not available. |
| Skin contact | Corrosive. (based on components). Causes burns. Specific test data for the substance or mixture is not available. |

Eye contact (based on components). Corrosive to the eyes and may cause severe damage including blindness. Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes.

Ingestion Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways. Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Coughing and/ or wheezing. Redness. Burning. May cause blindness.

Acute toxicity

Numerical measures of toxicity

No information available

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---------------------|----------------------|-------------|-----------------|
| Sodium metasilicate | = 1153 mg/kg (Rat) | - | - |
| Tetrasodium EDTA | = 1658 mg/kg (Rat) | - | - |

Skin corrosion/irritation Classification based on data available for ingredients. Causes burns.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

Specific target organ toxicity (single exposure) No information available.

Specific target organ toxicity (repeated exposure) No information available.

Aspiration hazard No information available.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

| Chemical name | Algae/aquatic plants | Fish | Crustacea |
|---------------------|---|--|-----------|
| Sodium metasilicate | - | LC50: =210mg/L (96h, Brachydanio rerio) | - |
| Tetrasodium EDTA | EC50: =1.01mg/L (72h, Desmodemus subspicatus) | LC50: =41mg/L (96h, Lepomis macrochirus) LC50: =59.8mg/L (96h, Pimephales promelas) | - |

Persistence and degradability No information available.

Bioaccumulative potential No information available.

Mobility in soil No information available.

13. Disposal considerations

Waste chemicals Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

14. Transport information

China

UN number or ID number UN1719
 UN proper shipping name CAUSTIC ALKALI LIQUID, N.O.S.
 Transport hazard class(es) 8
 Packing group III
 China Technical Name Sodium metasilicate
 Description UN1719, CAUSTIC ALKALI LIQUID, N.O.S. (Sodium metasilicate), 8, III
 Special Provisions 274

IMDG

UN number or ID number UN1719
 UN proper shipping name CAUSTIC ALKALI LIQUID, N.O.S.
 IMDG Technical Name Sodium metasilicate
 Description UN1719, CAUSTIC ALKALI LIQUID, N.O.S. (Sodium metasilicate), 8, III
 Transport hazard class(es) 8
 Packing group III
 Marine pollutant NP
 Special Provisions 223, 274
 EmS-No F-A, S-B

IATA

UN number or ID number UN1719
 UN proper shipping name Caustic alkali liquid, n.o.s.
 IATA Technical Name Sodium metasilicate
 Description UN1719, Caustic alkali liquid, n.o.s. (Sodium metasilicate), 8, III
 Transport hazard class(es) 8
 Packing group III
 Special Provisions A3, A803
 ERG Code 8L

Special precautions for user

Please refer to the applicable dangerous goods regulations for additional information

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture**National regulations****Law of the People's Republic of China on Prevention and Control of Occupational Diseases**

Catalog of occupational hazard factors:

Not applicable.

Catalog of occupational diseases:

Not applicable.

Regulations on the Control over Safety of Hazardous ChemicalsInventory of hazardous chemicals

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed.

Weight-% 6

| Chemical name | Serial number | Inventory of hazardous chemicals |
|---------------------|---------------|----------------------------------|
| Sodium metasilicate | 1618 | Listed |

GB 18218-2009 Identification of major hazard installations for dangerous chemicals

Not applicable

List of hazardous chemicals under priority management

Not applicable

Regulations on Labor Protection in Workplaces Where Toxic Substances Are Used

Inventory of highly toxic goods

Not applicable

Regulations for Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals

List of toxic chemicals severely restricted for import and export in China

Not applicable

Measures for the Environmental Management of New Chemical Substances**IECSC - China Inventory of Existing Chemical Substances** Contact supplier for inventory compliance status.**International Regulations****The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable**The Stockholm Convention on Persistent Organic Pollutants** Not applicable**The Rotterdam Convention** Not applicable**16. Other information****Issuing Date** 18-Nov-2021**Revision Date** 18-Nov-2021**Revision Note** Initial Release.**Abbreviations and acronyms**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

| | | | |
|---------|-----------------------------|------|----------------------------------|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value | * | Skin designation |
| C | Carcinogen | | |

Key literature references and sources for data used to compile the SDS

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Disclaimer

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End of Safety Data Sheet