

# SAFETY DATA SHEET

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

Product Name Power Kleen, Air Filter Cleaner

Issuing Date 18-Nov-2021 (M)SDS Number UL-KN-011A Revision Date 18-Nov-2021 Revision Number 1

1. Identification		
Product identifier		
Product Name	Power Kleen, Air Filter Cleaner	
Other means of identification		
Product Code(s)	99-0635	
UN/ID no	UN1760	
Pure substance/mixture	Mixture	
Details of the supplier of the safety	v data sheet	
<u>Supplier</u> K&N Engineering, Inc. Unit 609, 4th Bldg., 1970 Technology Town Mingzhi, Longhua District, Shenzhen, 518131 0086-755-2376-0296		
E-mail address	compliance@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 Clear liquid Physical state Liquid Odor None

# Classification of the substance or mixture

Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1

# Label elements



#### Signal word

Danger

Hazard statements Causes severe skin burns and eye damage

#### 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

#### Response

Immediately call a POISON CENTER or doctor Specific treatment (see .? on this label) 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 plant

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

Not applicable.

Other hazards which do not result in classification

Not applicable.

# 3. Composition/information on ingredients

## Substance

Not applicable.

## <u>Mixture</u>

Chemical name	CAS No	Weight-%
Sodium metasilicate	6834-92-0	5 - 10
Sodium hydroxide	1310-73-2	1 - 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	Remove to fresh air. 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.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical advice/attention.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.
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 contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. 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	Carbon dioxide (CO2). Foam. Dry chemical.
Unsuitable extinguishing media	Water.
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.
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. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
Other information	Refer to protective measures listed in Sections 7 and 8.

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For emergency responders	Use personal protection recommended in Section 8.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.
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 starage	
7. Handling and storage	
Precautions for safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.
	skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated

# 8. Exposure controls/personal protection

# **Occupational exposure limits**

Chemical name	China	ACGIH TLV
Sodium hydroxide	Ceiling: 2 mg/m <sup>3</sup> Ceiling	Ceiling: 2 mg/m <sup>3</sup>

# 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	Tight sealing safety goggles. Face protection shield.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.
Hand protection	Wear suitable gloves. Impervious 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	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. 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.

# 9. Physical and chemical properties

Information on basic physical and	chemical properties	
Appearance Physical state Color Odor	Clear liquid Liquid Red None	
Odor threshold	No information available	
Property	Values	Remarks • Method
pH	> 12	
Melting point / freezing point Initial boiling point and boiling range	> 100 °C	No data available
Flash point Evaporation rate		No data available No data available No data available
Flammability Flammability Limit in Air		No data avallable
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 - 1.1	
Water solubility	Soluble in water	No data available
Solubility(ies) 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 Oxidizing properties	No information available. No information available.	

10. Stability and reactivity		
<u>Stability</u>	Stable under normal conditions.	
Possibility of hazardous reactions	None under normal processing.	
Conditions to avoid	Exposure to air or moisture over prolonged periods.	
Incompatible materials	Acids. Bases. Oxidizing agent.	

Hazardous decomposition products None known based on information supplied.

# 11. Toxicological information

Information on likely routes of exposure

**Product Information** 

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

Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components). Corrosive to the eyes and may cause severe damage including blindness. May cause irreversible damage to eyes.
Ingestion	Specific test data for the substance or mixture is not available. 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.
Symptoms related to the physical, o	chemical and toxicological characteristics
Symptoms	Redness. Burning. May cause blindness. Coughing and/ or wheezing.
Acute toxicity	

Numerical measures of toxicity

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	
Sodium metasilicate	= 1153 mg/kg ( Rat )	-	-	
Sodium hydrovide	- 225 mg/kg (Bot)	- 1250 mg/kg ( Pobbit )		
Sodium hydroxide	= 325 mg/kg (Rat)	= 1350 mg/kg (Rabbit)	-	
Skin corrosion/irritation	Classification based on data available for ingredients. Causes burns.			
Serious eye damage/eye irritation	Classification based on data available for ingredients. Risk of serious damage to eyes. Causes burns.			
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 No information available. exposure)				
Specific target organ toxicity (repeated exposure)	No information available.			
Aspiration hazard	No information available.			
12. Ecological information				
Ecotoxicity	The environmental impact of th	nis product has not been fully in	vestigated.	

Chemical name	Algae/aquatic plants	Fish	Crustacea	
Sodium metasilicate	-	LC50: =210mg/L (96h,	-	
Sodium hydroxide		Brachydanio rerio) LC50: =45.4mg/L (96h,		
Socium nycroxide	-	Oncorhynchus mykiss)	-	
Persistence and degradability	No information available.			
Bioaccumulative potential	No information available.			
Mobility in soil	No information available.			
13. Disposal considerati	ions			
Waste chemicals	Dispose of in accordance environmental legislation.	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.		
Contaminated packaging	Do not reuse empty conta	iners.		
14. Transport information				
China UN number or ID number UN proper shipping name Transport hazard class(es) Packing group China Technical Name Description Special Provisions	UN1760 CORROSIVE LIQUID, N.G 8 II Sodium metasilicate, Sodi UN1760, CORROSIVE L 274		e, Sodium hydroxide), 8, II	
IMDG UN number or ID number UN proper shipping name IMDG Technical Name Description Transport hazard class(es) Packing group Marine pollutant Special Provisions EmS-No	UN1760 CORROSIVE LIQUID, N.0 Sodium metasilicate, Sodi UN1760, CORROSIVE L 8 II NP 274 F-A, S-B		e, Sodium hydroxide), 8, II	
IATA_ UN number or ID number UN proper shipping name IATA Technical Name Description Transport hazard class(es) Packing group Special Provisions ERG Code	UN1760 Corrosive liquid, n.o.s. Sodium metasilicate, Sodi UN1760, Corrosive liquic 8 II A3, A803 8L	um hydroxide I, n.o.s. (Sodium metasilicate, Sodiu	m hydroxide), 8, II	
Special precautions for user				

**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:	Listed. Chemical hazards.
Catalog of occupational diseases:	Listed. Occupational poisoning.
Chemical name	Category
Sodium hydroxide	Chemical hazards

#### **Regulations on the Control over Safety of Hazardous Chemicals**

#### Inventory of hazardous chemicals

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

#### Weight-% 13

Chemical name	Serial number	Inventory of hazardous chemicals		
Sodium metasilicate 1618		Listed		
Sodium hydroxide	1669	Listed		
GB 18218-2009 Identification of major hazard installations for dangerous chemicals List of hazardous chemicals under priority management		Not applicable 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 Not applicable

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

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 18-Nov-2021 **Issuing Date** 18-Nov-2021 **Revision Date Revision Note** Initial Release.

#### Abbreviations and acronyms

Legend Se	ection 8: EXPOSURE CONTROLS/PERSONAL	PROTECTION	
TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
С	Carcinogen		-
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## 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