



# MATERIAL SAFETY DATA SHEET

## 1. Chemical product and company identification

<b>A. Product name</b>	<b>5-56® Multi-Purpose Lubricant</b>	
<b>Product code</b>	05004K	
<b>B. Recommended use and Limitations on use</b>		
<b>Recommended use</b>	Multi-purpose lubricant	
<b>C. Supplier information</b>		
<b>Company name</b>	CRC Industries, Inc.	
<b>Address</b>	885 Louis Dr. Warminster PA 18974 United States	
<b>Telephone</b>	General Information	215-674-4300
	Technical Assistance	800-521-3168
	Customer Service	800-272-4620
<b>Email</b>		
<b>Emergency telephone number</b>	24-Hour Emergency (CHEMTREC)	800-424-9300

## 2. Hazards identification

### A. Hazard category/Classification

<b>Physical hazards</b>	Flammable aerosols	Category 1
<b>Health hazards</b>	Skin corrosion/irritation	Category 2
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Aspiration hazard	Category 1
<b>Environmental hazards</b>	Not classified.	
<b>Other hazards which do not result in classification</b>	Not classified.	

### B. Warning label items including precautionary statement

• Pictogram



• Signal word

Danger

• Hazard statement

H222	Extremely flammable aerosol.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.

• Precautionary statement

**Prevention**

P210	Keep away from flames and hot surfaces. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Pressurized container: Do not pierce or burn, even after use.
P261	Avoid breathing mist or vapor.
P261	Avoid breathing gas.
P271	Use only outdoors or in a well-ventilated area.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves.

**Response**

P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331	Do NOT induce vomiting.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P321	Specific treatment (see this label).
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.

P304 + P340  
P312

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Call a POISON CENTER or doctor/physician if you feel unwell.

#### Storage

P403 + P233  
P405  
P410 + P412

Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.  
Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

#### Disposal

P501

Dispose of contents/container in accordance with local/regional/national/international regulations.

**C. Other hazards not included in the hazard category criteria (e.g. dust explosion hazard)**

None known.

### 3. Composition/information on ingredients

Chemical identity	Common and alternative names	CAS number	ID number	Content in percent (%)
Distillates (petroleum), hydrotreated light		64742-47-8	KE-12550	50 - 55
Liquefied Petroleum Gas		68476-86-8	KE-28192	20 - 25
Distillates (petroleum), solvent-refined heavy paraffinic		64741-88-4	KE-12614	10 - 15
n-Butyl stearate		123-95-5	KE-26345	1 - 5
Sorbitan oleate		1338-43-8	KE-31689	1 - 5
Methyl salicylate		119-36-8	KE-20378	0.3 - 5
Petrolatum		8009-03-8	KE-28170	0.1 - 5

### 4. First aid measures

<b>A. In case of eye contact</b>	Rinse with water. Get medical attention if irritation develops and persists.
<b>B. In case of skin contact</b>	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
<b>C. In case of inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
<b>D. In case of swallowing</b>	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
<b>E. Note to physician</b>	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
<b>General advice</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. Fire-fighting measures

#### A. Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media** Alcohol resistant foam. Dry powder. Dry chemicals. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

#### B. Specific hazards arising from the chemical (example: hazardous combustion products)

Contents under pressure. Pressurized container may rupture when exposed to heat or flame. During fire, gases hazardous to health may be formed.

#### C. Specific methods of fire-fighting

**Special protective equipment for firefighters** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**Special fire fighting procedures** Move containers from fire area if you can do so without risk. Cool containers exposed to heat with water spray and remove container, if no risk is involved. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

#### General fire hazards

Extremely flammable aerosol.

#### Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. In the event of fire and/or explosion do not breathe fumes.

## 6. Accidental release measures

- A. Personal precautions, protective equipment and emergency measures** Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Avoid breathing gas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the MSDS.
- B. Environmental precautions** Avoid discharge into drains, water courses or onto the ground.
- C. Methods and materials for containment and cleaning up** Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water. Stop leak if you can do so without risk. Use water spray to reduce vapors or divert vapor cloud drift. Isolate area until gas has dispersed. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers.
- Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the MSDS.

## 7. Handling and storage

- A. Precautions for safe handling** Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Avoid breathing mist or vapor. Avoid breathing gas. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated contact with skin. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.
- B. Conditions for safe storage (including any incompatibilities)** Level 3 Aerosol.
- Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store away from incompatible materials (see Section 10 of the MSDS).

## 8. Exposure controls/personal protection

### A. Exposure limit values, biological limit values, etc

#### Korea. OELs. Standards for Exposure to Chemical Substances and Physically Hazardous Factors

Components	Type	Value
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)	TWA	200 mg/m3

#### US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Distillates (petroleum), solvent-refined heavy paraffinic (CAS 64741-88-4)	TWA	5 mg/m3	Inhalable fraction.
n-Butyl stearate (CAS 123-95-5)	TWA	10 mg/m3	
Petrolatum (CAS 8009-03-8)	TWA	5 mg/m3	Inhalable fraction.

**Biological limit values** No biological exposure limits noted for the ingredient(s).

### Exposure guidelines

#### Korea OELs: Skin designation

Distillates (petroleum), hydrotreated light (CAS 64742-47-8) Substance can be absorbed through membrane, eye and skin and can cause whole body effects (It does not mean skin irritant).

**B. Appropriate engineering controls** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

### C. Personal protective equipment

- **Respiratory protection** Chemical respirator with organic vapor cartridge and full facepiece.
- **Eye protection** Not available.
- **Hand protection** Wear appropriate chemical resistant gloves.

• <b>Body protection</b>	Wear appropriate chemical resistant clothing.
<b>Hygiene measures</b>	When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

<b>A. Appearance</b>	
Physical state	Liquid.
Form	Aerosol.
Color	Amber.
<b>B. Odor</b>	
	Pleasant.
<b>C. Odor threshold</b>	
	Not available.
<b>D. pH</b>	
	Not available.
<b>E. Melting point/freezing point</b>	
Melting point	-72.4 °F (-58 °C) estimated
Freezing point	-72.4 °F (-58 °C) estimated
<b>F. Boiling point, initial boiling point, and boiling range</b>	
	212 °F (100 °C) estimated
<b>G. Flash point</b>	
	145 °F (62.8 °C) Tag Closed Cup
<b>H. Evaporation rate</b>	
	Not available.
<b>I. Flammability (solid, gas)</b>	
	Not available.
<b>J. Upper/lower limit on flammability or explosive limits</b>	
Flammability limit - lower (%)	0.6 % estimated
Flammability limit - upper (%)	5.5 % estimated
Explosive limit - lower (%)	0.6 % estimated
Explosive limit - upper (%)	5.5 % estimated
<b>K. Vapor pressure</b>	
	1439.5 hPa estimated
<b>L. Solubility</b>	
Solubility (water)	Negligible.
<b>M. Vapor density</b>	
	> 1 (air = 1)
<b>N. Specific gravity</b>	
	0.75 estimated
<b>O. n-octanol/water partition coefficient</b>	
	Not available.
<b>P. Auto-ignition temperature</b>	
	456.8 °F (236 °C) estimated
<b>Q. Decomposition temperature</b>	
	Not available.
<b>R. Viscosity</b>	
	Not available.
<b>S. Molecular weight</b>	
	Not available.
<b>Other data</b>	
Density	6.26 lbs/gal estimated
Percent volatile	92.4 % estimated

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>A. Stability and hazardous reaction potential</b>	
Stability	Material is stable under normal conditions.
Hazardous reaction potential	No dangerous reaction known under conditions of normal use.
<b>B. Conditions to avoid (e.g. static discharge, shock or vibration, etc)</b>	
	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
<b>C. Incompatible materials</b>	
	Strong oxidizing agents.
<b>D. Hazardous decomposition products</b>	
	Carbon oxides. Sulfur oxides. Hydrocarbons.

## 11. Toxicological information

### A. Information on likely routes of exposure

- **Respiratory organs** May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.
- **Skin** Causes skin irritation.
- **Eyes** Direct contact with eyes may cause temporary irritation.
- **Mouth** Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

### B. Information on health hazards

- **Acute toxicity (list all possible routes of exposure)** May be fatal if swallowed and enters airways. Narcotic effects.

Product	Species	Test Results
5-56® Multi-Purpose Lubricant		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	2949.6785 mg/kg estimated
<i>Inhalation</i>		
LC50	Rat	15.2401 mg/l, 4 hours estimated
<i>Oral</i>		
LD50	Rat	6782.2524 mg/kg estimated
<b>Subchronic</b>		
<i>Oral</i>		
LD50	Rat	3061.5386 g/kg, 14 days estimated
• <b>Corrosivity or irritation to the skin</b>	Causes skin irritation.	
• <b>Serious eye damage/eye irritation</b>	Direct contact with eyes may cause temporary irritation.	
• <b>Respiratory sensitization</b>	Not available.	
• <b>Skin sensitization</b>	This product is not expected to cause skin sensitization.	
• <b>Carcinogenic properties /Carcinogenicity</b>	Not available.	
• <b>Mutagenic properties /Mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
• <b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.	
• <b>Specific target organ toxicity - single exposure</b>	May cause drowsiness and dizziness.	
• <b>Specific target organ toxicity - repeated exposure</b>	Not classified.	
• <b>Aspiration hazard</b>	May be fatal if swallowed and enters airways.	

## 12. Ecological information

### A. Ecotoxicity

Product	Species	Test Results	
5-56® Multi-Purpose Lubricant			
<b>Aquatic</b>			
Crustacea	EC50	Daphnia	6993.0068 mg/l, 48 hours estimated
Fish	LC50	Fish	1803.1013 mg/l, 96 hours estimated
<b>Components</b>			
<b>Species</b>			
<b>Test Results</b>			
Sorbitan oleate (CAS 1338-43-8)			
<b>Aquatic</b>			
<i>Acute</i>			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	> 1000 mg/l, 96 hours

**Hazardous to the aquatic environment, acute hazard**  
**Hazardous to the aquatic environment, long-term hazard**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.  
Not available.

**B. Persistence/degradability**

No data is available on the degradability of this product.

**C. Bioaccumulative potential**

No data available.

**Bioaccumulative potential**

**Octanol/water partition coefficient log Kow**

Methyl salicylate

2.55

**D. Mobility in soil**

This product is miscible in water.

**E. Other adverse effects**

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

**A. Method of disposal**

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Dispose in accordance with all applicable regulations. Dispose of contents/container (in accordance with related regulations).

**B. Disposal considerations (including disposal of contaminated containers or packaging)**

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

### 14. Transport information

**IATA**

**A. UN number**

UN1950

**B. UN proper shipping name**

Aerosols, flammable, Limited Quantity

**C. Transport hazard class(es)**

**Class**

2.1

**Subsidiary risk**

-

**D. Packing group**

Not applicable.

**E. Environmental hazards**

No.

**ERG Code**

10L

**F. Special precautions for user**

Read safety instructions, MSDS and emergency procedures before handling.

**Other information**

**Passenger and cargo aircraft**

Allowed.

**Cargo aircraft only**

Allowed.

**IMDG**

**A. UN number**

UN1950

**B. UN proper shipping name**

AEROSOLS, LIMITED QUANTITY

**C. Transport hazard class(es)**

**Class**

2

**Subsidiary risk**

-

**D. Packing group**

Not applicable.

**E. Environmental hazards**

**Marine pollutant**

No.

**EmS**

Not applicable.

**F. Special precautions for user**

Read safety instructions, MSDS and emergency procedures before handling.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not established.

**IATA; IMDG**



## 15. Regulatory information

---

### A. Restrictions under the Industrial Safety and Health Law

#### Harmful Substances Prohibited from Manufacturing

Not regulated.

#### Harmful Substances Requiring Permission for Manufacture or Use

Not regulated.

#### Controlled Hazardous Substances

Not regulated.

#### Harmful Substances Requiring Special Medical Examination

Not regulated.

#### Workplace Environmental Monitoring Harmful Materials

Not regulated.

#### Occupational Exposure Limit

Distillates (petroleum), hydrotreated light (CAS 64742-47-8)

### B. Restrictions under the Toxic Chemicals Control Law

#### Accidental Release Prevention Substances

Not regulated.

#### Banned Toxic Chemicals

Not regulated.

#### Observational Chemicals

Not regulated.

#### Restricted Chemical Substances

Not regulated.

#### Toxic Chemicals

Not regulated.

### C. Restrictions under the Dangerous Substance Safety Management Act

### D. Restrictions under the Wastes Control Act

#### Halogenated Materials in Waste Organic Solvents

Not regulated.

#### Hazardous Substances

Not regulated

### E. Restrictions under other foreign or domestic laws

#### Clean Air Conservation Act

##### Air Pollutants

Liquefied Petroleum Gas (CAS 68476-86-8)

Petrolatum (CAS 8009-03-8)

##### Specific Air Pollutants

Not regulated.

#### Further information

This material safety data sheet was prepared in accordance with Article 41 of the Industrial Safety and Health Law.

#### Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Korea	Existing Chemicals List (ECL)	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information

---

### A. Source of information

ACGIH  
EPA: AQUIRE database  
NLM: Hazardous Substances Data Base  
US. IARC Monographs on Occupational Exposures to Chemical Agents  
Korea. Accidental Release Prevention Substances (Presidential Decree of Toxic Chemical Control Law, Executive Order No. 19203)  
Korea. Dangerous Substances Threshold Quantity (Presidential Decree of Dangerous Substances Safety Management Act No. 18406, Schedule 1)  
Korea. Harmful Substances Prohibited from Manufacturing (Presidential Decree on the Industrial Safety and Health Act (No. 13053), Article 29)  
Korea. Harmful Substances Requiring Permission for Manufacture or Use (Presidential Decree on the Industrial Safety and Health Act (No. 13053), Article 30)  
Korea. Non-Toxic Chemicals List (National Institute of Environment Research (NIER) Public Notice No. 1997-10, as amended)  
Korea. Observational Chemicals (Ministerial Decree of TCCL Article 6)  
Korea. OELs. Regulation for Permitted Concentration of Hazardous Substances (Ministry of Labor (MOL) Public Notice No. 1986-45, as amended)  
Korea. Prohibited Chemical Substances (TCCL Article 11)  
Korea. Regulated volatile organic compounds (VOCs) (MOE Notice No. 2001-36, March 8, 2001, as amended)  
Korea. Restricted Chemical Substances (TCCL Article 11)  
Korea. Toxic Chemical Control Law (TCCL), Existing Chemicals Inventory (KECI)  
Korea. Toxic Chemical Control Law (TCCL), pre-1997 List  
Korea. Toxic Chemicals (TCCL Article 10)  
Korea. Toxic Release Inventory (TRI) Chemicals (TCCL Article 14)

### B. Issue date

02-27-2015

### C. Number of revisions and date of most recent revision

Not applicable.

### D. Other

Not available.

### Disclaimer

CRC cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.