




MATERIAL SAFETY DATA SHEET

1. Chemical product and company identification

A. Product name	CC-3 Concentrate	
Product code	61009	
B. Recommended use and Limitations on use		
Recommended use	Not available.	
Limitations on use	Not available.	
C. Supplier information		
Company name	CRC Industries, Inc.	
Address	885 Louis Dr. Warminster PA 18974 United States	
Telephone	General Information	1-215-674-4300
	Technical Assistance	1-800-521-3168
	Customer Service	1-800-272-4620
Email		
Emergency telephone number	24-Hour Emergency (CHEMTREC)	1-800-424-9300 (US) 1-703-527-3887 (International)

2. Hazards identification

A. Hazard category/Classification		
Physical hazards	Not classified.	
Health hazards	Aspiration hazard	Category 1
Environmental hazards	Not classified.	
Other hazards which do not result in classification	Not classified.	
B. Warning label items including precautionary statement		
• Pictogram		
• Signal word	Danger	
• Hazard statement		
H304	May be fatal if swallowed and enters airways.	
• Precautionary statement		
Prevention	Observe good industrial hygiene practices.	
Response		
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.	
P331	Do NOT induce vomiting.	
Storage		
P405	Store locked up.	
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 (%)
Paraffin oils (petroleum), catalytic dewaxed heavy		64742-70-7	KE-27774	40 - 45

Chemical identity	Common and alternative names	CAS number	ID number	Content in percent (%)
Paraffin oils (petroleum), catalytic dewaxed light		64742-71-8	KE-27775	20 - 25
n-Butyl stearate		123-95-5	KE-26345	10 - 15
Sorbitan oleate		1338-43-8	KE-31689	5 - 10
Fatty Acids, C18-unsatd., Dimers		61788-89-4	KE-35135	1 - 5
Sodium petroleum sulfonate		68608-26-4	KE-32519	1 - 5
Petrolatum		8009-03-8	KE-28170	0.1 - 5

4. First aid measures

A. In case of eye contact	Rinse with water. Get medical attention if irritation develops and persists.
B. In case of skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
C. In case of inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
D. In case of swallowing	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.
E. Note to physician	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General advice	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	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
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)	During fire, gases hazardous to health may be formed.
C. Specific methods of fire-fighting	
Special protective equipment for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Special fire fighting procedures	Move containers from fire area if you can do so without risk.
General fire hazards	No unusual fire or explosion hazards noted.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

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. Ensure adequate ventilation. 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	<p>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. For waste disposal, see section 13 of the MSDS.</p>

7. Handling and storage

A. Precautions for safe handling	Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.
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B. Conditions for safe storage (including any incompatibilities)

Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the MSDS).

8. Exposure controls/personal protection

A. Exposure limit values, biological limit values, etc

ACGIH Components	Type	Value	Form
Fatty Acids, C18-unsatd., Dimers (CAS 61788-89-4)	STEL	10 mg/m3	Respirable
	TWA	5 mg/m3	Respirable
US. ACGIH Threshold Limit Values			
Components	Type	Value	Form
n-Butyl stearate (CAS 123-95-5)	TWA	10 mg/m3	
Paraffin oils (petroleum), catalytic dewaxed heavy (CAS 64742-70-7)	TWA	5 mg/m3	Inhalable fraction.
Paraffin oils (petroleum), catalytic dewaxed light (CAS 64742-71-8)	TWA	5 mg/m3	Inhalable fraction.
Petrolatum (CAS 8009-03-8)	TWA	5 mg/m3	Inhalable fraction.

Biological limit values

No biological exposure limits noted for the ingredient(s).

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.

C. Personal protective equipment

- **Respiratory protection** If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies.
- **Eye protection** Wear safety glasses with side shields (or goggles).
- **Hand protection** Wear protective gloves such as: Nitrile. Neoprene.
- **Body protection** Wear suitable protective clothing.

Hygiene measures

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

A. Appearance

Physical state	Liquid.
Form	Liquid.
Color	Amber.

B. Odor

Petroleum.

C. Odor threshold

Not available.

D. pH

Not available.

E. Melting point/freezing point

Melting point	80.6 °F (27 °C) estimated
Freezing point	80.6 °F (27 °C) estimated

F. Boiling point, initial boiling point, and boiling range

212 °F (100 °C) estimated

G. Flash point

> 350 °F (> 176.7 °C) Cleveland Open Cup

H. Evaporation rate

Slow.

I. Flammability (solid, gas)

Not available.

J. Upper/lower limit on flammability or explosive limits

Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.

Explosive limit - upper (%)	Not available.
K. Vapor pressure	0.6 hPa estimated
L. Solubility	
Solubility (water)	Negligible.
M. Vapor density	> 1 (air = 1)
N. Specific gravity	0.88
O. n-octanol/water partition coefficient	Not available.
P. Auto-ignition temperature	500 °F (260 °C) estimated
Q. Decomposition temperature	Not available.
R. Viscosity	15.6 cSt (100 °F (37.78 °C)) 62.4 cSt (70 °F (21.11 °C))
S. Molecular weight	Not available.

10. Stability and reactivity

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

11. Toxicological information

A. Information on likely routes of exposure	
• Respiratory organs	Prolonged inhalation may be harmful.
• Skin	Prolonged skin contact may cause temporary 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.
• Corrosivity or irritation to the skin	Prolonged skin contact may cause temporary irritation.
• Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
• Respiratory sensitization	Not a respiratory sensitizer.
• Skin sensitization	This product is not expected to cause skin sensitization.
• Carcinogenic properties /Carcinogenicity	Not available.
• Mutagenic properties /Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
• Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
• Specific target organ toxicity - single exposure	Not classified.
• Specific target organ toxicity - repeated exposure	Not classified.
• Aspiration hazard	May be fatal if swallowed and enters airways.

12. Ecological information

A. Ecotoxicity

Product	Species		Test Results
CC-3 Concentrate			
Aquatic			
<i>Acute</i>			
Crustacea	EC50	Daphnia	20833.334 mg/l, 48 hours estimated
Fish	LC50	Fish	1442.8413 ppm, 96 hours estimated
Components	Species		Test Results

Sorbitan oleate (CAS 1338-43-8)

Aquatic

Acute

Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	> 1000 mg/l, 96 hours
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Hazardous to the aquatic environment, acute 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.

Hazardous to the aquatic environment, long-term hazard Not available.

B. Persistence/degradability No data is available on the degradability of this product.

C. Bioaccumulative potential

Octanol/water partition coefficient log Kow

Fatty Acids, C18-unsatd., Dimers 1 - 2.5, logKow

D. Mobility in soil No data available for this product.

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. Dispose of contents/container (in accordance with related regulations).

B. Disposal considerations (including disposal of contaminated containers or packaging) Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

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

Not regulated.

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**

Paraffin oils (petroleum), catalytic dewaxed heavy (CAS 64742-70-7)

Paraffin oils (petroleum), catalytic dewaxed light (CAS 64742-71-8)

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

10-08-2015

C. Number of revisions and date of most recent revision

Not applicable.

D. Other

Not available.

Disclaimer

CRC Industries, Inc. 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.