



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name PAROIL 54 NR
Version # 05
Revision date 05-09-2012
Chemical description Chlorinated alkenes (C12-C24)
CAS # 68527-02-6
CAS # 85535-85-9
Manufacturer information DOVER CHEMICAL CORPORATION
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Dover, OH 44622 United States
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CHEMTREC (Outside the U.S.) 1-703-527-0585
CHEMTREC (U.S. and Canada) 1-800-424-9300

2. Hazards Identification

Emergency overview Health injuries are not known or expected under normal use. No hazards resulting from the material as supplied. Irritating fumes and gases may be released upon thermal processing or during combustion. May cause eye or skin irritation with susceptible persons. Inhalation of vapor or mist may cause irritation.

OSHA regulatory status This product is considered not hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects

Routes of exposure Skin contact.
Eye contact
Inhalation

Eyes Contact with eyes may cause irritation.

Skin Prolonged and/or repeated skin contact may result in mild irritation or redness.

Inhalation May cause irritation of respiratory tract. Avoid breathing vapors or mists of this product.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Do not ingest.

Signs and symptoms Repeated or prolonged exposure may cause irritation of eyes and skin. Inhalation of vapors in high concentration may cause irritation of respiratory system.

Potential environmental effects May cause long-term adverse effects in the environment.

3. Composition / Information on Ingredients

Non-hazardous components	CAS #	Percent
ALKENES, C12-24, CHLORO	68527-02-6	99 - 100

Composition comments The manufacturer states that there is no known carcinogen at or above 0.1% in this product.

4. First Aid Measures

First aid procedures

Eye contact Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.

Skin contact Get medical attention if irritation develops or persists. Wash with soap and water.

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

Ingestion Have victim rinse mouth thoroughly with water. Do not induce vomiting without medical advice. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. If ingestion of a large amount does occur, call a poison control center immediately. If ingestion of a large amount does occur, seek medical attention.

Notes to physician Treat symptomatically.
General advice If you feel unwell, seek medical advice (show the label where possible).

5. Fire Fighting Measures

Flammable properties Containers may explode when heated.

Extinguishing media

Suitable extinguishing media Water Fog. Dry chemical, foam, water fog.

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

Protection of firefighters

Specific hazards arising from the chemical Irritating and toxic gases or fumes may be released during a fire.

Protective equipment and precautions for firefighters Wear suitable protective equipment. In the event of fire, wear self contained breathing apparatus.

Fire fighting equipment/instructions Firefighters should wear full protective gear. Move containers from fire area if you can do it without risk. Move containers from fire area if you can do so without risk.

Hazardous combustion products Irritating and toxic gases or fumes may be released during a fire.

6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. Ensure adequate ventilation. Use personal protective equipment.

Environmental precautions Prevent further leakage or spillage if safe to do so. Runoff from fire control or dilution water may cause pollution. Do not contaminate water.

Methods for containment Eliminate all sources of ignition or flammables that may come into contact with a spill of this material. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk. Dike the spilled material, where this is possible. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Methods for cleaning up Should not be released into the environment.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Dike far ahead of liquid spill for later disposal. Cover with plastic sheet to prevent spreading. Prevent product from entering drains. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the MSDS. Wear appropriate protective equipment and clothing during clean-up.

7. Handling and Storage

Handling DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not handle or store near an open flame, heat or other sources of ignition. Avoid prolonged or repeated skin contact with this material. Wash hands after handling and before eating. Avoid release to the environment. Handle and open container with care.

Storage Keep away from heat, sparks, and flame. Keep away from heat, sparks and open flame. Use care in handling/storage. Store in a cool dry place.

8. Exposure Controls / Personal Protection

Engineering controls Ventilation should effectively remove and prevent buildup of any vapor/mist/fume/dust generated from the handling of this product.

Personal protective equipment

Eye / face protection Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection Normal work clothing (long sleeved shirts and long pants) is recommended.

Respiratory protection No personal respiratory protective equipment normally required. If mist is generated (heating, spraying) and engineering controls are not sufficient, wear approved organic vapor respirator suitable for oil mist.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance	Oil like
Physical state	Liquid.
Form	Liquid.
Color	clear
Odor	not significant
Odor threshold	Not available.
pH	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Boiling point	Not available.
Melting point/Freezing point	Not available.
Solubility (water)	Not available.
Specific gravity	1.05 - 1.3 @ 25 C
Relative density	Not available.
Flash point	>450 F (200.000000 C) Method: C.O.C 449.6 °F (232.2222 °C) estimated
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Auto-ignition temperature	Not available.
Molecular formula	UVCB
Other data	
Flash point class	Combustible IIIB
Oxidising properties	None.

10. Chemical Stability & Reactivity Information

Chemical stability	Material is stable under normal conditions. Stable at normal conditions
Conditions to avoid	Heat, flames and sparks. High temperatures.
Incompatible materials	This product may react with strong oxidizing agents. This product may react with strong reducing agents.
Hazardous decomposition products	carbon oxides, Hydrogen chloride gas. Thermal decomposition can lead to release of irritating gases and vapors.
Possibility of hazardous reactions	Will not occur.

11. Toxicological Information

Sensitization	No data available for this product.
Acute effects	Incomplete toxicological data are available for this product.
Local effects	May cause eye or skin irritation with susceptible persons. Inhalation of vapors may cause irritation of the respiratory system in very susceptible persons.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Not listed by ACGIH, IARC, NIOSH, NTP OR OSHA.
Epidemiology	No epidemiological data is available for this product.
Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Neurological effects	No data available for this product.
Teratogenicity	No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Further information	This product has no known adverse effect on human health.

12. Ecological Information

Ecotoxicological data

Product	Test Results
Alkanes, C14-17, chloro (68527-02-6)	LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss): > 0.0109 mg/l 96 hours

* Estimates for product may be based on additional component data not shown.

Ecotoxicity	Contains a substance which causes risk of hazardous effects to the environment. No information on ecology is available.
Environmental effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Aquatic toxicity	May cause long-term adverse effects in the aquatic environment.
Persistence and degradability	Not available.

13. Disposal Considerations

Waste codes	Waste codes should be assigned by the user based on the application for which the product was used.
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.
Waste from residues / unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

14. Transport Information

DOT

Not regulated as dangerous goods.

TDG

Not regulated as dangerous goods.

IMDG

Basic shipping requirements:

UN number	UN3082
Proper shipping name	Environmentally hazardous substances, liquid, n.o.s. (Alkanes, C14-17, chloro)
Hazard class	9
Packing group	III
Environmental hazards	
Marine pollutant	Yes
Labels required	9
Additional information:	
Packaging exceptions	155



15. Regulatory Information

US federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2))

Not regulated

DEA Essential Chemical Code Number

Not regulated

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated

DEA Exempt Chemical Mixtures Code Number

Not regulated

US TSCA Section 12(b) Export Notification: Export Notification requirement/De minimis concentration

ALKENES, C12-24, CHLORO (CAS 68527-02-6)

1.0 % One-Time Export Notification only.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance

No

Section 311 hazardous chemical

No

Inventory status

Country(s) or region

Inventory name

On inventory (yes/no)*

Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

State regulations	This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm. California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.
WHMIS status	Non-controlled
16. Other Information	
Recommended use	Lubricant Lubricant Additive Flame Retardant Plastics Compounding
Further information	HMIS® is a registered trade and service mark of the NPCA.
HMIS® ratings	Health: 1 Flammability: 1 Physical hazard: 0 Personal protection: B
NFPA ratings	Health: 1 Flammability: 1 Instability: 0
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release. The information in the sheet was written based on the best knowledge and experience currently available.
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This data sheet contains changes from the previous version in section(s):	Product and Company Identification: Product and Company Identification Transport Information: General