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1. PRODUCT AND COMPANY INFORMATION

Company : ChemRex®

889 Valley Park Drive SHAKOPEE, MN 55379

Telephone : 952-496-6000

Emergency telephone number : (800) 424-9300

(703) 527-3887 (Outside Continental US)

Product name : CAST OFF®

MSDS ID No. : 11000

TSCA Inventory : All components of this product are included, or are exempt from inclusion, in the EPA

Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Canadian DSL : All components of this product are included, or are exempt from inclusion, in the

Canadian Domestic Substance List (DSL).

2. HAZARDOUS INGREDIENTS

<u>Chemical</u>	CAS No.	<u>TLV</u>	STEL	<u>PEL</u>	<u>CEIL</u>	Weight %
PETROLEUM DISTILLATES, HYDROTREATED HEAVY NAPHTHENIC	64742-52-5	N.E.	N.E.	500 ppm	N.E.	15.00 - 40.00 %
FUEL OIL #2	68476-30-2	N.E.	N.E.	N.E.	N.E.	30.00 - 60.00 %
PETROLEUM DISTILLATES, HYDROTREATED LIGHT NAPHTHENIC	64742-53-6	N.E.	N.E.	500 ppm	N.E.	15.00 - 40.00 %

3. HAZARDS IDENTIFICATION

PHYSICAL
HMIS® Rating HEALTH FLAMMABILITY HAZARD PPE

1 2 0 F

WHMIS Class : B3 D2B

Effects of Overexposure

Inhalation : Inhalation of high vapor concentrations may cause symptoms like headache, dizziness,

tiredness, nausea and vomiting. Inhalation of high vapor concentrations can cause CNS-

depression and narcosis. Prolonged inhalation can be harmful.

Skin : Prolonged skin contact may defat the skin and produce dermatitis. Prolonged or

repeated exposure can cause skin irritation and redness.

Eyes : Can cause slight irritation.

Ingestion : Can cause slight irritation.

Chronic exposure : This product contains solvents. Reports associate repeated and prolonged occupational

overexposure to solvents with permanent brain and nervous system damage. Reports also indicate that solvents cause liver damage, kidney damage, and mucous membrane





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irritation. Be warned that intentional misuse by deliberately inhaling the vapors and/or the product contents (a process often called "sniffing") can be harmful or fatal.

Carcinogenicity

carcinogenicity					
	ACGIH	IARC	NTP	OSHA	
PETROLEUM DISTILLATES,	N.E.	N.E.	N.E.	N.E.	
HYDROTREATED HEAVY					
NAPHTHENIC					
FUEL OIL #2	N.E.	Limited data.	N.E.	N.E.	
PETROLEUM DISTILLATES,	N.E.	N.E.	N.E.	N.E.	
HYDROTREATED LIGHT					
NAPHTHENIC					

4. FIRST AID MEASURES

Eye contact : Flush eyes with water, lifting upper and lower lids occasionally for 15 minutes. Seek

medical attention.

Skin contact : Remove contaminated clothing. Wash thoroughly with soap and water. If irritation

persists seek medical attention. Wash contaminated clothing before reuse.

Ingestion : Do not induce vomiting without medical advice. If conscious, drink plenty of water. If a

person feels unwell or symptoms of skin irritation appear, consult a physician. If a person vomits, place him/her in the recovery position. Never give anything by mouth to an

unconscious person.

Inhalation : Remove victim from exposure. If difficulty with breathing, administer oxygen. If breathing

has stopped administer artificial respiration, preferably mouth-to-mouth. Seek immediate

medical attention.

5. FIRE-FIGHTING MEASURES

Flash point : $60 \,^{\circ}\text{C} \, (140 \,^{\circ}\text{F})$

Autoignition temperature : no data available

Lower explosion limit : 0.7 %(V)

Upper explosion limit : 5.0 %(V)

Suitable extinguishing media : water fog

dry chemical

foam

carbon dioxide (CO2)

Fire and Explosion Hazards : Combustible Liquid. Can form explosive mixtures at temperatures at or above the

flashpoint. Vapors can travel to a source of ignition and flash back. Empty containers

retain product residue (liquid and/or vapor) and can be dangerous. DO NOT

PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; CONTAINERS MAY EXPLODE AND CAUSE INJURY OR DEATH. Cool closed containers exposed to fire with water spray. Solid stream of water

or foam can cause frothing.

Protective equipment : As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH

approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES





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Methods for cleaning up : Ventilate the area and remove all sources of ignition. Evacuate unnecessary personnel.

Large spills should be handled carefully. Put on respiratory protection and necessary personal protective equipment. Dike or impound spilled Liquid. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations

(see section 13).

7. HANDLING AND STORAGE

Handling : Use only in area provided with appropriate ventilation. Keep out of reach of children. Take

precautionary measures against static discharges. Ground and bound containers when

transferring material. For personal protection see section 8.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye protection : Wear as appropriate:

safety glasses with side-shields

goggles face-shield

Hand protection : Wear Chemically resistant gloves.

Body Protection : Wear as appropriate:

Chemically resistant clothes preventive skin protection

Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment. When workers are

facing concentrations above the exposure limit they must use appropriate certified

respirators.

Hygienic Practices : Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in

confined areas. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety

practice.

Engineering Controls : Local exhaust ventilation can be necessary to control any air contaminants to within their

TLVs during the use of this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color : light yellow

Physical State : liquid

Odor : kerosene

pH (at 100 %) : not applicable

Vapor Pressure : < 66.66 hPa

Vapor Density : Heavier that air

Boiling point/range : 162.78 °C (325.00 °F)

Freeze Point : no data available





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Water solubility : insoluble

Specific Gravity : 0.88

Viscosity : no data available

Evaporation rate : Slower than Butyl acetate

Partition coefficient (n-

octanol/water)

no data available

VOC Concentration as applied

(less water and exempt

solvents)

350 g/l

10. STABILITY AND REACTIVITY

Stability : Stable under recommended storage conditions.

Conditions to avoid : Heat, flames and sparks. Prolonged exposure to high temperatures

Materials to avoid : Strong mineral acids, Lewis acids, oxidizing agents, strong bases.

Hazardous decomposition

products

Oxides of carbon

Hazardous polymerization : Will not occur under normal conditions.

11. TOXICOLOGICAL INFORMATION

Acute inhalation toxicity

Type Value Species Exposure time

Product LC50 no data available

Component

PETROLEUM DISTILLATES, HYDROTREATED LC50 no data available

HEAVY NAPHTHENIC

FUEL OIL #2 LC50 no data available PETROLEUM DISTILLATES, HYDROTREATED LC50 no data available

LIGHT NAPHTHENIC

Acute oral toxicity

<u>Type</u> <u>Value</u> <u>Species</u>

Product LD50 (Oral) no data available

Component

PETROLEUM DISTILLATES, HYDROTREATED LD50 (Oral) 770 mg/kg

HEAVY NAPHTHENIC

FUEL OIL #2 LD50 (Oral) 6,480 mg/kg
PETROLEUM DISTILLATES, HYDROTREATED LD50 (Oral) 790 mg/kg

LIGHT NAPHTHENIC



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Acute dermal toxicity

<u>Type</u> <u>Value</u> <u>Species</u>

Product LD50 (Dermal) no data available

Component

FUEL OIL #2

PETROLEUM DISTILLATES, HYDROTREATED LD50 (Dermal) no data available

HEAVY NAPHTHENIC

LD50 (Dermal) no data available LD50 (Dermal) no data available

PETROLEUM DISTILLATES, HYDROTREATED

LIGHT NAPHTHENIC

12. ECOLOGICAL INFORMATION

Ecotoxicological Information : There is no data available for this product.

13. DISPOSAL CONSIDERATIONS

Recommendations: Use excess product in an alternate beneficial application. Handle disposal of waste material in manner which complies with local, state, province and federal regulation.

14. TRANSPORT INFORMATION

DOT : Proper shipping name Not regulated

IATA : Proper shipping name FLAMMABLE LIQUIDS, N.O.S. (Petroleum Distillates)

UN-No 19 Class 3 Packaging group III

Primary Label Flammable liquid

15. REGULATORY INFORMATION

SARA 311/312 (RTK)

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE (ACUTE) HEALTH HAZARD FIRE HAZARD DELAYED (CHRONIC) HEALTH HAZARD

SARA 313

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

Weight % CAS No. Chemical Name

No SARA 313 Chemicals exist in this product.

CERCLA

CERCLA section 103(a) specifically requires the person in charge of a vessel or facility to report immediately to the National Response Center (NRC) a release of a hazardous substance whose amount equals or exceeds the assigned RQ. The following hazardous substances are contained in this product.





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RQ CAS No. Chemical Name

No CERCLA chemicals exists in this product above reportable concentrations.

TSCA Section 12(b) Export Notification

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

CAS No. Chemical Name

There are no TSCA 12(b) Chemicals in this product.

California Proposition 65

The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer, birth defects or other reproductive harm:

CAS No. Chemical Name

There are no Proposition 65 chemicals known to exist in this product.

16. OTHER INFORMATION

Legend : N.E. - Not Established

TLV - Threshold Limit Value STEL - Short Term Exposure Limit PEL - Permissible Exposure Limit

CEIL - Ceiling

Prepared By : Environment, Health and Safety Department

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End of MSDS.