SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 - Product Identifiers

Catalog Name: D-2887-REFOIL
Description: D-2887 Reference Oil

CAS No.: 86290-81-5

1.2 - Relevant Identified Uses of the Substance or Mixture

Laboratory Chemical Reference Material

1.3 - Supplier Details

Company: AccuStandard, Inc.

125 Market St.

New Haven, CT 06513 USA

Telephone Number: 203-786-5290

Fax: 203-786-5287

Email: edocs@accustandard.com

1.4 - Emergency Telephone Number

Emergency Phone #: AccuStandard, Inc.

1-203-502-7070 (USA)

+001-203-502-7070 (International)

24 hours / 7 days a week

SECTION 2 - HAZARDS IDENTIFICATION

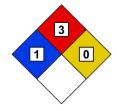
2.1 - GHS Label Elements













Signal Word: Danger Hazard Codes:

H225 - Highly Flammable (Flammable liquids, category 2)

H302 - Harmful if swallowed. (Acute toxicity, oral, category 4)

H305 - Aspiration hazard if swallowed - may be harmful if swallowed and enters airways. (Aspiration hazard, catagory 2)

H315 - Irritating to skin. (Skin corrosion/irritation, category 2)

H320 - Irritating to eyes. (Eye damage/irritation, category 2B)

H332 - Harmful if inhaled. (Acute toxicity, inhalation, category 4)

H335 - May be irritating to mucous membrane and upper respiratory system. (Specific target organ toxicity, single exposure; Respiratory tract irritation, category 3)

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Catalog Number: D-2887-REFOIL

SECTION 2 - HAZARDS IDENTIFICATION - continued

2.1 - GHS Label Elements - continued

H350 - This product is or contains a component that is classified (ACGIH, IARC, NTP, OSHA) as a cancer hazard. (Carcinogenicity, category 1A)

Precautionary Codes:

- P202 This product should only by used by persons trained in the safe handling of hazardous chemicals.
- P210 Store in a cool dry place away from ignition sources.
- P233 Store in a tightly closed container. (P404)
- P260 Do not breathe vapor.
- P262 Do not get in eyes, on skin or clothing.
- P264 Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily
- P280 Protective gloves must be worn to prevent skin contact.
- P284 Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see TLV/PEL), or a risk assessment shows air-purifying respirators are appropriate, use of a NIOSH/MSHA approved air supplied respirator is advised. Use a full-face respirator with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges in absence of proper environmental control. Always use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Engineering and/or administrative controls should be implemented to reduce exposure.
- P338 Eye contact: Immediately flush with plenty of water. After initial flushing, remove and contact lenses and continue flushing for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers.
- P360 Skin contact: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

2.2 - Other Hazards

2.2.1 - Symptom of Exposure Health/Environment

Highly Flammable (Flammable liquids, category 2)

Symptoms of overexposure include general reddening and irritation to the skin and eyes, mucous membrane irritation and upper respiratory tract irritation.

May cause headache, dizziness, hallucinations, distorted perceptions, changes in motor activity, nausea, respiratory irritation, central nervous system depression and unconsciousness.

Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation or dematitis (rash).

Aspiration hazard if swallowed - may be harmful if swallowed and enters airways. (Aspiration hazard, catagory 2)

2.2.2 - Potential Health Effects

Irritating to eyes. (Eye damage/irritation, category 2B)

Irritating to skin. (Skin corrosion/irritation, category 2)

May be harmful if absorbed through the skin. (Acute toxicity, dermal, category 5)

May be irritating to mucous membrane and upper respiratory system. (Specific target organ toxicity, single exposure; Respiratory tract irritation, category 3)

Harmful if inhaled. (Acute toxicity, inhalation, category 4)

Harmful if swallowed. (Acute toxicity, oral, category 4)

2.2.3 - Routes of Entry

Inhalation, ingestion or skin contact.

2.2.4 - Carcinogenicity

California Proposition 65 cancer hazard.

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SECTION 2 - HAZARDS IDENTIFICATION - continued

2.2 - Other Hazards - continued

2.2.4 - Carcinogenicity - continued

This product is or contains a component that is classified (ACGIH, IARC, NTP, OSHA) as a cancer hazard. (Carcinogenicity, category 1A)

SECTION 3 - COMPOSITION / ANALYTES DATA

Description: D-2887 Reference Oil

Synonyms: N/A

Molecular Weight: N/A Molecular Formula: N/A

EC#: 289-220-8 Index#: 649-378-00-4

			ACGIH -TLV (mg/m³)			OSHA -PEL (mg/m³)			
Analyte	CAS#	% Concentration	TWA	STEL	Skin	TWA	STEL	Skin	
Reference gas oil	86290-81-5	100.000							

SECTION 4 - FIRST AID MEASURES

4.1 - First Aid Procedures - General

Get medical assistance for all cases of overexposure.

4.2 - Eye Contact

Eye contact: Immediately flush with plenty of water. After initial flushing, remove and contact lenses and continue flushing for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. (P338)

4.3 - Skin Contact

Skin contact: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse. (P360)

4.4 - Inhalation

Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

4.5 - Ingestion

Ingestion: Call a physician or poison control center immediately. ONLY induce vomiting at the instructions of a physician. Never give anything by mouth to an unconscious person.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 - Flammable Properties

Dangerous fire and explosive hazard.

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

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

5.2 - Extinguishing Media

Use alcohol foam, carbon dioxide, or dry chemical when fighting fires involving this material.

Do not spray water directly on oil fire.

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SECTION 5 - FIRE FIGHTING MEASURES - continued

5.3 - Protection of Firefighters

As in any fire, wear self-contained breathing apparatus pressure demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 - Spill Response

Wear suitable protective equipment listed under Exposure Controls / Personal Protection. Eliminate any ignition sources until the area is determined to be free from explosion or fire hazards. Contain the release and eliminate its source, if this can be done without risk. Dispose as hazardous waste. Comply with Federal, State and local regulations.

SECTION 7 - HANDLING AND STORAGE

Store in a tightly closed container. (P404)

Store in a cool dry place away from ignition sources.

Do not breathe vapor. (P260)

Use with adequate ventilation.

Do not get in eyes, on skin or clothing. (P262)

Avoid prolonged or repeated exposure.

This product should only by used by persons trained in the safe handling of hazardous chemicals. (P202)

SECTION 8 - EXPOSURE CONTROLS

8.1 - Engineering Controls/PPE

Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available. (P264)

8.2 - General Hygene Considerations

Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see TLV/PEL), or a risk assessment shows air-purifying respirators are appropriate, use of a NIOSH/MSHA approved air supplied respirator is advised. Use a full-face respirator with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges in absence of proper environmental control. Always use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Engineering and/or administrative controls should be implemented to reduce exposure.

Material should be handled or transferred in an approved fume hood or with adequate ventilation.

Protective gloves must be worn to prevent skin contact. (P280)

(Nitrile or equivalent)

Use eye protection tested and approved under the appropriate government standards such as NIOSH (US) or EN 166 (EU).

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, red liquid Odor: Gasoline (hydrocarbon)

Odor Threshold: N/A

pH: N/A

Melting Point: <-38 °C (<-36.4 °F)

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES - continued

Boiling Point: >22.8 °C (>73 °F) Flash Point: -38 °F (-39 °C) (cc) Evaporation Rate (Butyl Acetate=1): >1

Flammability Class: N/A Lower Flammability Level: 1.4 Upper Flammability Level: 7.6

Vapor Pressure: <775 mmHg (20 °C)

Vapor Density (Air = 1): 3.0 g/l Specific Gravity: 0.74 g/cm3 Solubility in Water: Insoluble Partition Coefficient: log Pow: 3.0 Autoignition Temperature: 257 °C Decomposition Temperature: N/A

Viscosity: N/A VOC Content: N/A Percent Volatile: 99+

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable

Materials to Avoid: Oxidizers

Hazardous Decomposition: Carbon oxides; Hydrocarbons; Aromatics; Aldehydes

Hazardous Polymerization: Will not occur

Condition to Avoid: Heat; Contact with ignition sources

SECTION 11 - TOXICOLOGICAL INFORMATION

Human Health Toxicity

See section 2 for specific toxicological information for the ingredients of this product.

LD50 (Oral): Rat - 500 mg/kg

LD50 (Dermal): N/A

LC50 (Inhalation): Rat - 20.6 mg/L

Aspiration hazard if swallowed - may be harmful if swallowed and enters airways. (Aspiration hazard, catagory 2)

WARNING: This product contains chemical(s) known to the state of California to cause cancer and to cause birth

defects or other reproductive harm.

No other information related to the toxicological properties of this product is available at this time.

SECTION 12 - ECOLOGICAL INFORMATION

Environmental Toxicity

By complying with sections 6 and 7 there should be no release to the environment.

LC50 (Fish): 13 mg/L 96H

EC50 (Aquatic Invertebrate): 12 mg/L 48H

BCF: N/A

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SECTION 12 - ECOLOGICAL INFORMATION - continued

HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS.

No other information related to the ecological properties of this product is available at this time.

SECTION 13 - DISPOSAL CONSIDERATIONS

Recycle or incinerate at any EPA approved facility or dispose in compliance with Federal, State and local regulations. Empty containers must be triple-rinsed prior to disposal.

SECTION 14 - TRANSPORT INFORMATION

Transportation Information (DOT/IATA)

UN Number: UN1203

Class: 3

Packing Group: II

Proper Shipping Name: Gasoline

Poison by Inhalation: No Marine Pollutant: No

SECTION 15 - REGULATORY INFORMATION

All components are listed on the TSCA Inventory.

WARNING: This product contains chemical(s) known to the state of California to cause cancer and to cause birth defects or other reproductive harm.

This product is subject to SARA section 313 reporting requirements.

This product is or contains a variable complex mixture of components, principally hydrocarbons, blended to performance, rather than chemical specifications, and typically contains the following components:

Naphtha (petroleum) light-heavy catalytic cracked, full-range reformed/alkylyte, sweetened; Butane; Proprietary additives.

May also include varying amounts of the following components:

Benzene; Cumene; Cyclohexane; Ethylbenzene; Naphthalene; Hexane; Toluene; Xylene.

For laboratory, research and development use only. Not for manufacturing or commercial purposes.

In addition to federal and state regulations, local regulations may apply. Check with your local regulatory authorities.

SECTION 16 - OTHER INFORMATION

This document has been designed to meet the requirements of OSHA, ANSI, GHS and CHIPs regulations. Chemicals are classified using the Globally Harmonized System for Classification and Labeling of Chemicals.

The statements contained herein are offered for informational purposes only and are based on technical data that we believe to be accurate. The manufacturer will not assume any liability for the accuracy and completeness of this information. Final determination of the suitability of the material is the responsibility of the user. Although certain hazards are described herein, the user should not presume that these are the only hazards that exist. Since conditions and manner of use are outside of the manufacturers control, we make

NO WARRANTY OF MERCHANTABILITY, EXPRESSED OR IMPLIED, AND ASSUME NO LIABILITY RESULTING FROM ITS USE.

Legend: N/A = Not Available ND = Not Determined NR = Not Regulated

Alteration of any information contained herein without written permission from the manufacturer is strictly prohibited.

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HMIS/NFPA HAZARD INDEX

- 0 Minimal
- 1 Slight
- 2 Moderate
- 3 Serious
- 4 Severe
- * Additional Hazard

GHS HAZARD INDEX

Category 1 - Most Severe Category 5 - Least Severe

**** End of Document ****

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