

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard (29 CFR 1910.1200)

Revision date 07-26-2025 Revision Number 1

1. Identification

Product identifier

Product Name Barrier Fluid H1[™] 34

Other means of identification

Product Code(s) RPBF001

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Lubricant

Restrictions on use Consumer use

Details of the supplier of the safety data sheet

Manufacturer Address

Lubrication Engineers, Inc. 1919 E. Tulsa Wichita, KS 67216 USA 1-800-537-7683

Emergency telephone number

Website www.royalpurpleind.com

Emergency Telephone CHEMTREC: 1-800-424-9300 (NORTH AMERICA)

+1-703-527-3887 (INTERNATIONAL)

2. Hazard(s) identification

Classification of the substance or mixture

Aspiration hazard Category 1

Hazards not otherwise classified (HNOC)

Not applicable.

Label elements



Danger

Hazard statements

May be fatal if swallowed and enters airways.

Precautionary Statements - Response

IF SWALLOWED: Immediately call a POISON CENTER or doctor.

Do NOT induce vomiting.

Precautionary Statements - Storage

Store locked up.

Precautionary Statements - Disposal

Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable.

Hazards classified under paragraph (d)(1)(ii) of 1910.1200

No information available.

Other information

No information available.

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

| Chemical name | CAS No. | Weight-% | Trade secret |
|---|-------------|----------|--------------|
| Reaction products of 1-decene and 1-dodecene, | 151006-60-9 | 90 - 100 | * |
| hydrogenated | | | |
| Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, | 68037-01-4 | 90 - 100 | * |
| oligomers, hydrogenated; <20.5 cSt | | | |

Identifiers above that are not CAS RN are internally assigned unique identifiers. *The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First-aid measures

Description of first aid measures

General advice Immediate medical attention is required. Show this safety data sheet to the doctor in

attendance.

Inhalation Aspiration into lungs can produce severe lung damage. If breathing has stopped, give

artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult,

(trained personnel should) give oxygen. Delayed pulmonary edema may occur.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention if irritation develops and persists.

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

Ingestion ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE.

Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to

prevent aspiration. Rinse mouth. Never give anything by mouth to an unconscious person.

Get immediate medical attention.

Self-protection of the first aider

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as

required.

Most important symptoms and effects, both acute and delayed

Symptoms Difficulty in breathing. Coughing and/ or wheezing. Dizziness.

Indication of any immediate medical attention and special treatment needed

Note to physicians Because of the danger of aspiration, emesis or gastric lavage should not be employed

unless the risk is justified by the presence of additional toxic substances.

5. Fire-fighting measures

surrounding environment.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

Not easily combustible. Product may ignite and burn at temperatures exceeding the flash

point.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Use personal protective equipment as required.

Other information Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Use a non-combustible material like vermiculite, sand or earth to soak up the product and

place into a container for later disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Avoid contact with eyes and prolonged or repeated contact with skin.

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

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

Keep out of the reach of children. Store away from other materials.

8. Exposure controls/personal protection

Control Parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Biological occupational exposure

limits

This product, as supplied, does not contain any hazardous materials with biological limits

established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering controls Apply technical measures to comply with the occupational exposure limits.

Individual protection measures, such as personal protective equipment

Eye/face protection If splashes are likely to occur, wear safety glasses with side-shields.

Hand protection Appropriate hand protection should be selected and used according to the chemical nature,

hazards and use of this product and safety requirements of the local jurisdiction.

Skin and body protection Appropriate skin and body protection should be selected and used according to the

chemical nature, hazards and use of this product and safety requirements of the local

jurisdiction.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance Colorless
Physical state Liquid
Odor (includes odor threshold) Characteristic

Property Values Method

Melting point / freezing point No da Boiling point (or initial boiling point or No da

boiling range)

No data available No data available

No data available

Flammability
Flammability Limit in Air

Upper flammability or explosive limits No data available Lower flammability or explosive limits No data available

Flash point 228.8889 °C / 444 °F ASTM D92

Autoignition temperature No data available

No data available **Decomposition temperature** No data available SADT (°C) No data available pH (as aqueous solution) No data available

ASTM D445 Kinematic viscosity 18.4 cSt @ 40°C

No data available Dynamic viscosity No data available Solubility Water solubility No data available No data available Partition coefficient n-octanol/water (log

Vapor pressure (includes evaporation rate)No data available

Density and/or relative density 0.820 **ASTM D4052**

Bulk density No data available **Liquid Density** No data available Relative vapor density No data available

Particle characteristics

Particle Size No data available **Particle Size Distribution** No data available

Other information

Information with regard to physical hazard classes

10. Stability and reactivity

Reactivity No information available.

Stable under normal conditions. Chemical stability

Possibility of hazardous reactions None under normal processing.

Conditions to avoid None known based on information supplied.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition products None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

Inhalation Aspiration into lungs can produce severe lung damage. May cause pulmonary edema.

Pulmonary edema can be fatal. May cause irritation of respiratory tract.

Eye contact May cause irritation.

Repeated exposure may cause skin dryness or cracking. Skin contact

Ingestion Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may

cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Difficulty in breathing. Coughing and/ or wheezing. Dizziness. **Symptoms**

Acute toxicity Based on available data, the classification criteria are not met. **Component Information**

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--|-------------|-------------|------------------------------------|
| Reaction products of 1-decene and 1-dodecene, hydrogenated | >5000 mg/kg | >2000 mg/kg | < 4800 mg/m ³ (Rat) 4 h |
| 151006-60-9 | | | |
| Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, | >5000 mg/kg | >2000 mg/kg | > 5.2 mg/L (Rat)4 h |
| hydrogenated; <20.5 cSt 68037-01-4 | | | |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritationBased on available data, the classification criteria are not met.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitization Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

DMSO Disclaimer Product containing mineral oil with less than 3% DMSO extract as measured by IP 346

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT - single exposure Based on available data, the classification criteria are not met.

STOT - repeated exposureBased on available data, the classification criteria are not met.

Aspiration hazard May be fatal if swallowed and enters airways.

12. Ecological information

Ecotoxicity Based on available data, the classification criteria are not met.

Persistence and degradability No information available.

Bioaccumulation

Component Information

| Chemical name | Partition coefficient |
|--|-----------------------|
| Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, | 6.5 |
| hydrogenated; <20.5 cSt | |
| 68037-01-4 | |

Other adverse effects No information available.

13. Disposal considerations

Disposal methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

14. Transport information

DOT

UN number or ID number Not regulated

<u>TDG</u>

UN number or ID number Not regulated

MEX

UN number or ID number Not regulated

ICAO (air)

UN number or ID number Not regulated

IATA

UN number or ID number Not regulated

<u>IMDG</u>

UN number or ID number Not regulated

15. Regulatory information

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

TSCA Complies.

DSL/NDSL Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. **EINECS/ELINCS ENCS** Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. **IECSC** Contact supplier for inventory compliance status. **KECL** Contact supplier for inventory compliance status. **PICCS** Contact supplier for inventory compliance status. AIIC **NZIoC** Contact supplier for inventory compliance status. **TCSI** Contact supplier for inventory compliance status.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

TCSI - Taiwan Chemical Substance Inventory

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CAA (Clean Air Act)

This product does not contain any substances regulated as pollutants pursuant to Clean Air Act (CAA).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

| <u>NFPA</u> | Health hazards 0 | Flammability 1 | Instability 0 | Special hazards - |
|-------------|------------------|----------------|--------------------|-----------------------|
| HMIS_ | Health hazards 1 | Flammability 1 | Physical hazards 0 | Personal protection - |

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend

| ACGIH | American Conference of Governmental Industrial Hygienists |
|-------|--|
| ADN | Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |

| (Europe) Agreement concerning the International Carriage of Dangerous Goods by Road (Europe) Australian Inventory of Industrial Chemicals Acute Toxicity Estimate American Society for the Testing of Materials Biological Reference Values for Chemical Compounds in the Work Area Biological tolerance values for occupational exposure Biological exposure limits Body weight Maximum limit value Carcinogen, Mutagen or Reproductive Toxicant Department of Transportation (United States) Domestic Substances List (Canada) Emergency Schedule Existing and New Chemical Substances (Japan) Environmental Protection Agency Globally Harmonized System Hazardous Materials Identification System International Agency for Research on Cancer International Ar Transport Association International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk International Civil Aviation Organization | |
|--|--|
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| International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk | |
| Chemicals in Bulk | |
| International Civil Aviation Organization | |
| minorial oral attitation organization | |
| Inventory of Existing Chemical Substances in China | |
| International Maritime Dangerous Goods | |
| International Maritime Organization | |
| International Organization for Standardization | |
| Korean Existing Chemicals Inventory | |
| Lethal Concentration to 50% of a test population | |
| Lethal Dose to 50% of a test population (Median Lethal Dose) | |
| International Convention for the Prevention of Pollution from Ships | |
| National Fire Protection Association | |
| National Institute for Occupational Safety and Health | |
| Not Otherwise Specified | |
| No Observed Adverse Effect Concentration | |
| No Observed Adverse Effect Level | |
| No Observable Effect Loading Rate | |
| National Toxicology Program (United States) | |
| New Zealand Inventory of Chemicals | |
| Organization for Economic Cooperation and Development | |
| Occupational exposure limits | |
| Occupational Safety and Health Administration of the US Department of Labor | |
| Persistent, Bioaccumulative and Toxic substance | |
| Philippines Inventory of Chemicals and Chemical Substances | |
| Persistent, Mobile and Toxic | |
| Personal protective equipment | |
| Quantitative Structure Activity Relationship | |
| Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe) | |
| Self-Accelerating Decomposition Temperature | |
| Structure-activity relationship | |
| Superfund Amendments and Reauthorization Act | |
| Safety Data Sheet | |
| Surface Limit | |
| Short Term Exposure Limit | |
| Specific target organ toxicity - Repeated exposure | |
| Specific target organ toxicity - Nepeated exposure Specific target organ toxicity - Single exposure | |
| Taiwan Chemical Substance Inventory | |
| Transport of Dangerous Goods (Canada) | |
| | |

| TSCA | Toxic Substances Control Act (United States) |
|------|--|
| TWA | Time-Weighted Average |
| UN | United Nations |
| VOC | Volatile organic compounds |
| vPvB | Very Persistent and Very Bioaccumulative |
| vPvM | Very Persistent and Very Mobile |
| Sen+ | Sensitizer |
| Sk* | Skin designation |
| ** | Hazard Designation |

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

Environmental Protection Agency

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

U.S. National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Prepared ByCompliance.Revision date07-26-2025Revision NoteInitial Release.

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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. 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.

End of Safety Data Sheet