



1. **CHEMICAL PRODUCT/COMPANY IDENTIFICATION**

Rapid Flow: A Drag Reducer

Product Use: Providing Drag Reducing in Pipeline Carrying Hydrocarbon

(Thermally universal, allowing for use in almost all areas with a wide ambient temperature ranging from -30 to +65 °C)

MANUFACTURER/DISTRIBUTOR

Contact Information:

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2. **COMPOSITION/INFORMATION ON INGREDIENTS**

Components

Polyolefin Synthetic Rubber < 45 %

Primary alkyl alcohol > 55%

See Section 8 for exposure limits.

3. **HAZARDS IDENTIFICATION**

EMERGENCY OVERVIEW

APPEARANCE / ODOR

White liquid / noticeable hydrocarbon odor.

OSHA REGULATORY STATUS

This material is classified as hazardous as defined under OSHA regulations.

Combustible liquid

See below for health hazards.

HMIS RATING

Health: 1(slight); Flammability: 2 (Moderate); Reactivity: 0 (Least)

Potential Health Effects

Primary Routes of Entry: Skin, inhalation

Overexposure may cause weakness, headache, nausea, confusion, blurred vision, drowsiness, and other nervous system effects; greater overexposure may cause dizziness, slurred speech, flushed face, unconsciousness, and convulsions.



Extreme overexposure or aspiration into the lungs may cause lung damage or death.

Overexposure may cause moderate to severe irritation to the eyes, nose, throat, lungs, and skin but good hygienic practices can minimize these effects.

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

4. **FIRST AID MEASURES**

Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Skin Contact

In case of contact, immediately wash skin with soap and water. Wash contaminated clothing before reuse.

Eye Contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

Ingestion

Material poses an aspiration hazard. If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration.

Notes to Physicians

Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated charcoal in 400 ml water and mix thoroughly. Administer 5 ml/kg, or 350 ml for an average adult.

5. **FIRE FIGHTING MEASURES**

Flammable Properties

NFPA Rating: Health 1; Flammability 2; Reactivity 0.

Extinguishing Media

Water Spray, Foam, Dry Chemical, CO₂.



Fire Fighting Instructions:

Use water to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for personnel attempting to stop a leak.

Water spray may be used to flush spills away from sources of potential ignition.

Products of combustion may contain carbon monoxide, carbon dioxide, and other toxic materials. Don't enter enclosed or confined space without proper protective equipment including respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up.

Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Initial Containment

Dike spill. Prevent material from entering sewers, waterways, or low areas.

Prevent material from coming in contact with hydrocarbons as this will form a hard-to-handle gel material.

Spill Clean Up

Recover free liquid for reuse or reclamation. Soak up with sawdust, sand, oil dry or other absorbent material.

7. HANDLING AND STORAGE

Handling (Personnel)

Avoid breathing vapors or mist. Do not get in eyes. Do not get on skin. Wash thoroughly after handling. Wash contaminated clothing prior to reuse.

Storage

Avoid insulating. Sealed keep in cool and ventilated areas.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

VENTILATION

Normal ventilation adequate.

Personal Protective Equipment



RESPIRATORY PROTECTION

None normally required except in emergencies or when conditions cause excessive airborne levels of mists or vapors. Select appropriate NIOSH-approved organic vapor respiratory protection where necessary to maintain exposures below acceptable limits.

PROTECTIVE GLOVES

Should be worn when any potential exists for skin contact. NBR or neoprene recommended.

EYE/FACE PROTECTION

Safety glasses with side shields. Wear overall chemical splash goggles and face shield when possibility exists for eye and face contact due to splashing or spraying materials.

OTHER PROTECTIVE MEASURES

Sufficient protective clothing to minimize skin exposure.

Impervious protective clothing such as apron or chemical suit should be worn if splashing is possible. Launder contaminated clothing before reuse.

Exposure Guidelines

Branched primary alkyl alcohol

TLV (ACGIH): 50 ppm, 266 mg/m³, 8 Hr. TWA, Skin

9. ***PHYSICAL AND CHEMICAL PROPERTIES***

	Unit	Value	Method
Form		Fluid	-
Carrier fluid		Alcohol	-
Color		White	-
Odor		Hydrocarbon (Noticeable)	-
Flash Point (closed cup)	°C	≥ 65	ASTM D93
Density @ 20°C	g/l	0.88 ± 0.10	ASTM D4052
Freezing Point	°C	-40	
Viscosity @ 20°C	cP	< 250	ASTM D445
Product Stability (Remains Single Phase)	Day	≥ 90 (no agitation required for the period of 90 days)	
Solubility	Miscible with most organic solvents and immiscible in water.		



10. **STABILITY AND REACTIVITY**

Chemical Stability

Stable at normal temperatures and storage conditions.

Incompatibility with Other Materials

Prevent material from coming in contact with hydrocarbons as this will form a hard-to-handle gel material.

Decomposition

Normal combustion forms carbon dioxide; incomplete combustion may produce carbon monoxide.

Product can lose consistency with heat.

Polymerization: Polymerization will not occur.

11. **TOXICOLOGICAL INFORMATION**

Animal Data

Toxicological Information for One Component:

The effects in animals from single high exposures to vapors or liquid include respiratory tract and eye irritation; exposure to the undiluted liquid may result in corneal opacity. Repeated exposures caused respiratory irritation, nervous system depression, and reversible hematological effects.

12. **ECOLOGICAL INFORMATION**

Ecotoxicological Information

Component Aquatic Toxicity Information:

The 48-hr LC50 in a fish species was 23 mg/L.

13. **DISPOSAL CONSIDERATIONS**

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

14. **TRANSPORTATION INFORMATION**

Shipping Information



DOT (Bulk)

Proper Shipping Name: Combustible liquid, n.o.s. (contains branched primary alkyl alcohol), Combustible, NA1993, III.

DOT Label(s): None

DOT Placard: Combustible

Marine Pollutant: Yes (alkyl alcohol)

DOT (Non-Bulk): Not regulated.

ICAO: Not restricted.

IMO

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.(contains branched primary alkyl alcohol), 9, UN3082, III, Marine Pollutant.

Label: Class 9

Marine Pollutant Mark: Required (not required if shipping <1.3 gallons per package in combination packagings; 49 CFR 172.322 (d)).

15. **REGULATORY INFORMATION**

Related Regulations

OSHA HAZARD DETERMINATION

This material is hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA/SUPERFUND

This material is not known to contain any ingredient(s) subject to the Act.

SARA, TITLE III, 302/304

This material is not known to contain extremely hazardous substances.

SARA, TITLE III, 311/312

Acute: Yes

Chronic: No

Fire: Yes



Reactivity: No
Pressure: No

SARA, TITLE III, 313

This material is not known to contain any chemical(s) at a level of 1.0% or greater (0.1% for carcinogens) on the list of Toxic Chemicals and subject to release reporting requirements.

TSCA

Material and/or components are listed in the TSCA Inventory of Chemical Substances (40 CFR 710).

RCRA

This material has been evaluated for RCRA characteristics and does not meet hazardous waste criteria if discarded in its purchased form. Because of product use, transformation, mixing, processing, etc., which may render the resulting material hazardous, it is the product user's responsibility to determine at the time of disposal whether the material meets RCRA hazardous waste criteria.

CLEAN WATER ACT

This material is not known to contain any ingredient(s) subject to the Act.

16. OTHER INFORMATION

Additional Information: None.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS: MSDS Coordinator

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