

PRODUCT SAFETY DATA SHEET

Petrogel Release Agent

2. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT NAME	EINECS No.	CAS No.	CONTENTS	SYMBOL	RISK (R No.)
PROPAN-2-OL	200-661-7	67-63-0	40 %	F, Xi	11, 36, 67
EU INDEX No.:	603-117-00-0				
FORMULA:	C3-H7-OH				
WHITE SPIRIT	265-185-4	64742-48-9	40%	Xn	10, 65, 66
HYDROCARBON WAX	232-315-6	8002-74-2	20%		

The full text for all R-phrases are shown in section 16.

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3 HAZARDS IDENTIFICATION

Highly flammable.
Irritating to eyes.
Vapours may cause drowsiness and dizziness.
Contact with hot material may cause skin burns
May cause skin irritation.
Ingestion or inhalation may cause irritation of respiratory/digestive tract
Prolonged or repeated contact may cause dermatitis.

4 FIRST AID MEASURES

GENERAL: NOTE! Keep affected person away from heat, sparks and flames! Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

INHALATION: Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. When breathing is difficult, properly trained personnel may assist affected person by administering 100% oxygen. Keep the affected person warm and at rest. Get prompt medical attention.

INGESTION: NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Drink plenty of water.

SKIN: DO NOT induce vomiting. Get medical attention immediately.
Remove affected person from source of contamination. Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above. Get Medical attention if irritation persists after washing. In case of contact with hot product, flush skin with cold water to dissipate heat. Get medical attention immediately.

EYES: Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

Alcohol resistant foam. Water spray, fog or mist. Dry chemicals, sand, dolomite etc. Carbon dioxide (CO2).

SPECIAL FIRE FIGHTING PROCEDURES:

Move container from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.

UNUSUAL FIRE & EXPLOSION HAZARDS:

HIGHLY FLAMMABLE! May explode in a fire. Solvent vapours may form explosive mixtures with air.

HAZARDOUS DECOMPOSITION PRODUCTS:

Fire creates: Carbon dioxide (CO2). Carbon monoxide (CO).

6 ACCIDENTAL RELEASE MEASURES

SPILL CLEANUP METHODS:

Ventilate well, stop flow of gas or liquid if possible. Remove ignition sources. Do not allow chemical to enter confined spaces such as sewers due to explosion risk. Sewers designed to preclude formation of explosive concentrations of vapour may be permitted. Absorb in vermiculite, dry sand or earth and place into containers. Dike far ahead of larger spills for later disposal. Clean-up personnel should use respiratory and/or liquid contact protection.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS:

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Wear full protective clothing for prolonged exposure and/or high concentrations.

STORAGE PRECAUTIONS:

Flammable/combustible - Keep away from oxidizers, heat and flames. May attack some plastics, rubber and coatings. Keep in cool, dry, ventilated storage and closed containers. Ground container and transfer equipment to eliminate static electric sparks. Aluminium is not suitable

STORAGE CRITERIA:

Flammable liquid storage.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

INGREDIENT NAME	CAS No	STD	LT EXP (8 hrs)	ST EXP (15 min)
PROPAN-2-OL	67-63-0	OES	400 ppm	500 ppm

WHITE SPIRIT 64742-48-9 OES 100ppm 100ppm

INGREDIENT COMMENTS: OES = Occupational Exposure Standard.
PROTECTIVE EQUIPMENT:

VENTILATION: Provide adequate general and local exhaust ventilation.
RESPIRATORS: No specific recommendation made, but respiratory protection must be used if the general level exceeds the Occupational Exposure Level (OEL).
PROTECTIVE GLOVES: Use suitable protective gloves if risk of regular skin contact.
EYE PROTECTION: Wear approved chemical safety goggles where eye exposure is reasonably probable.
OTHER PROTECTION: Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.
HYGIENIC WORK ROUTINES: DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. No eating or drinking while working with this material.

9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid.
COLOUR: Cloudy
ODOUR/TASTE: Characteristic.
SOLUBILITY DESCRIPTION: Partly miscible with water. Miscible with: Organic solvents (most).
BOILING POINT (°C): 82 - 83 @ 760mmHg **SPECIFIC GRAVITY (Water=1):** 0.80 @ 20 °C
VAPOUR PRESSURE: 4100Pa @ 20 °C **EVAPORATION RATE:** 1.5(BuAc=1)
VISCOSITY: 3.5 mPas @ 20 °C **ODOUR THRESHOLD (lower):** 30ppm
ODOUR THRESHOLD (upper): ppm **FLASH POINT (°C):** 12
FLASH POINT METHOD: CC (Closed cup).
AUTO IGNITION TEMPERATURE (°C): 425
FLAMMABILITY LIMIT (lower %): 2
FLAMMABILITY LIMIT (upper %): 12

10 STABILITY AND REACTIVITY

STABILITY: Avoid: Heat, sparks, flames.
CONDITIONS TO AVOID: Extreme heat
MATERIALS TO AVOID: Strong oxidizing agents. Strong acids
HAZARDOUS DECOMPOSITION PRODUCTS:
Toxic gases/vapours/fumes of: Carbon monoxide (CO).
Carbon dioxide (CO₂).

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE1- LD50: 5840mg/kg (oral rat)
HEALTH WARNINGS: Gas or vapour is harmful on prolonged exposure or in high concentration. This chemical may cause skin/eye irritation and burns (corrosive). Irritant of eyes and mucous membranes. Toxic through skin absorption (percutaneous). Narcotic effect. CNS depressant. Repeated exposure may cause chronic eye irritation. Acute eczematous dermatitis, contact type erythema, oedema, papulas, vesicles, bullae, crusts, desquamation). Swallowing concentrated chemical may cause severe internal injury. Unconsciousness, death
ROUTE OF ENTRY: Inhalation. Ingestion. Skin and/or eye contact.
TARGET ORGANS: Central nervous system. Eyes. Gastro-intestinal tract. Respiratory system, lungs. Skin.
MEDICAL SYMPTOMS: Extreme irritation of eyes and mucous membranes, including burning and tearing. Dilated pupils. Rhinitis (inflammation of the nasal mucous membranes). Upper respiratory irritation. General respiratory distress, unproductive cough. May cause suffocation. Severe skin

irritation. Nausea, vomiting. Unconsciousness, possibly death. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Behavioral changes. Hypotension (low blood pressure).

MEDICAL CONSIDERATIONS: Skin disorders and allergies. Convulsive disorders, CNS problems.

12 ECOLOGICAL INFORMATION

MOBILITY: Partly dissolves in water. Lost within a day by evaporation and dissolution. Large volumes may penetrate soil and could contaminate groundwater.

BIO ACCUMULATION: Does not bioaccumulate significantly

DEGRADABILITY: Readily biodegradable meeting the 10 day criterion. Expected to degrade under anaerobic conditions. Oxidises rapidly by photo-chemical reaction in air. Integrated environmental half life expected to be 1 - < 10 days. Dominant loss process - biodegradation. Poses a significant risk of oxygen depletion in aquatic systems.

ACUTE FISH TOXICITY: Practically non toxic

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS: Dispose of in accordance with Local Authority requirements.

14 TRANSPORT INFORMATION

LABEL FOR CONVEYANCE: Xn/black cross on orange background/legend 'Harmful'.

ROAD:

UN No:	1268	ADR CLASS No:	3	
ADR ITEM No:	3(b)	HAZARD No. (ADR):		33
MARGINAL:	2301	ADR LABEL No:	3	
HAZCHEM CODE:	2YE			
PROPER SHIPPING NAME I:	PETROLEUM DISTILLATES.			

RAIL:

RAIL TRANSPORT CLASS No:	3	RAILROAD PT:	3(b)	
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SEA:

UN SEA:	1268	SEA TRANSPORT CLASS No:	3.2	
MARINE POLLUTANT:	No.			

AIR:

UN AIR:	1268	AIR TRANSPORT CLASS No:	3	
AIR PACK GR:	III			

15 REGULATORY INFORMATION

LABEL FOR SUPPLY: Black cross in orange square. Legend: Harmful/Xn.

RISK PHRASES:

R-11	Highly flammable.
R-36	Irritating to eyes.

	R-67	Vapours may cause drowsiness and dizziness.
SAFETY PHRASES:	S-2	Keep out of reach of children.
	S-7	Keep container tightly closed.
	S-16	Keep away from sources of ignition - No Smoking.
	S-26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S-24/25	Avoid contact with skin and eyes.

STATUTORY INSTRUMENTS: Chemicals (Hazard Information and Packaging) Regulations.
Control of Substances Hazardous to Health.

GUIDANCE NOTES: Occupational Exposure Limits EH40.

16 OTHER INFORMATION

We believe the statements, technical information and recommendations contained herein are reliable. This data is provided without warranty, expressed or implied. It is the users responsibility to determine safe conditions for the safe use of this product and assume loss damage or expense, direct or consequential, arising from its use. Before using the product, read information printed on the label.

SDS No.:	1003	
R-PHRASES (Full Text):	R-11	Highly flammable.
	R-36	Irritating to eyes.
	R-65	Harmful. May cause lung damage if swallowed
	R-66 cracking	Repeated exposure may cause skin dryness or
	R-67	Vapours may cause drowsiness and dizziness.

SAFETY DATA SHEET STATUS: Approved.

DATE: 08/11/2004