



# 284C2 and 284C3 Oil

## SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

#### Product identifier

Chemical Name Not applicable  
Trade name 284C2 / 284C3 Oil  
CAS No. Mixture

#### Relevant identified uses of the substance or mixture and uses advised against

Identified use(s) Mineral anticorrosion Lubricant  
Uses advised against None.

#### Details of the supplier of the safety data sheet

Company Identification Permawick Company  
3110 Permawick Drive  
Colombus, IN, 47201

Telephone (812) 376-0703  
Fax (812) 372-1410

E-Mail (competent person) sales@permawick.com

Emergency telephone number Monday - Friday, 8 am – 4:30 p.m. (EST) (812) 376-0703  
CHEMTREC 24 hr. (800) 424-9300

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200) NAsp. Tox. 1; Eye Irrit. 2

#### Label elements

Hazard Symbol



Signal word(s)  
Hazard statement(s)  
Precautionary statement(s)

#### DANGER

Causes serious eye irritation.  
Wear protective gloves/eye protection.  
Wash hands and exposed skin after use.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

Store locked up.

Harmful to aquatic life. Harmful to aquatic life with long lasting effects. Not classified as PBT or vPvB.

May produce an allergic reaction in persons already sensitized

#### Other hazards

#### Additional Information

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredient(s)	%W/W	CAS No.	Hazard statement(s)
Distillates (petroleum), solvent-dewaxed heavy paraffinic*	60-100	64742-65-0	Not classified.
Proprietary carboxylate-imidazole derivative corrosion inhibitor	2-3	Trade Secret	Harmful if swallowed. Causes serious eye damage. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.
Naphthalenesulfonic acid, dinonyl-, calcium salt (2:1)	13-18	57855-77-3	Causes serious eye irritation. Causes skin irritation.

\* Contains less than 3% DMSO extractable as measured by IP 346 method.

**Additional Information** - Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below.: None

## SECTION 4: FIRST AID MEASURES



### Description of first aid measures

Inhalation	Not normally required. Treat symptomatically.
Skin Contact	Wash affected skin with soap and water.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
Ingestion	Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.

**Most important symptoms and effects, both acute and delayed** None

**Indication of the immediate medical attention and special treatment needed** None

## SECTION 5: FIRE-FIGHTING MEASURES

### Extinguishing media

-Suitable Extinguishing Media	Extinguish with waterspray, dry chemical, sand or carbon dioxide.
-Unsuitable Extinguishing Media	None anticipated.

**Special hazards arising from the substance or mixture** This product may give rise to hazardous fumes in a fire.

**Advice for fire-fighters** A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures** Wear protective gloves/eye protection.

**Environmental precautions** Use appropriate container to avoid environmental contamination.

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<b>Methods and material for containment and cleaning up</b>	Contain and cover spilled substance with dry sand or earth or other suitable dry material. Transfer to a container for disposal or recovery.
<b>Reference to other sections</b>	None
<b>Additional Information</b>	None

## SECTION 7: HANDLING AND STORAGE

<b>Precautions for safe handling</b>	Wear protective gloves/eye protection. Wash hands and exposed skin after use.
<b>Conditions for safe storage, including any incompatibilities</b>	
-Storage Temperature	Store at room temperature.
-Incompatible materials	Strong oxidising agents.
<b>Specific end use(s)</b>	Lubricating agent

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Occupational Exposure Limits

SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)		STEL (ppm)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
None	----	----	----	----	----	

**Recommended monitoring method** None

#### Exposure controls

**Appropriate engineering controls** Not normally required.

#### Personal protection equipment

Eye/face protection Wear protective eyewear (goggles, face shield, or safety glasses).



Skin protection (Hand protection/ Other) Gloves



Respiratory protection Not normally required.



Thermal hazards Not normally required.

**Environmental Exposure Controls** Not normally required.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance Liquid

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Colour	Amber.
Odour	Fuel oil-like.
Odour Threshold (ppm)	Not available
pH (Value)	Not available
Melting Point (°C) / Freezing Point (°C)	Not available
Boiling point/boiling range (°C):	Not available
Flash Point (°C)	213 [Cleveland Open cup]
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Explosive limit ranges	Not available
Vapour Pressure (Pascal)	Not available
Vapour Density (Air=1)	Not available
Density (g/ml)	0.881
Solubility (Water)	Negligible.
Solubility (Other)	Not available
Partition Coefficient (n-Octanol/water)	Not available
Auto Ignition Temperature (°C)	Not available
Decomposition Temperature (°C)	Not available
Kinematic Viscosity (cSt) @ 40°C	106.6 -125
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
<b>Other information</b>	Not available

## SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity</b>	Stable under normal conditions.
<b>Chemical stability</b>	Stable.
<b>Possibility of hazardous reactions</b>	None anticipated.
<b>Conditions to avoid</b>	None
<b>Incompatible materials</b>	Oxidizers
<b>Hazardous Decomposition Product(s)</b>	Carbon monoxide, Carbon dioxide

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on toxicological effects

Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS No. 64742-65-0)

#### Acute toxicity

-Ingestion	LD50 > 5000 mg/kg (rat)
-Inhalation	LC50 = 2.18 mg/l (4 hour(s)) (rat)
-Dermal	LD50 > 2000 mg/kg (rabbit)
-Irritation	Non-irritant.

#### Sensitisation

It is not a skin sensitiser.

#### Repeated dose toxicity

Oral NOAEL < 125 mg/kg (rat)  
Inhalation NOAEL > 980 mg/m<sup>3</sup>  
Dermal NOAEL = 1000 mg/kg (rabbit)

#### Mutagenicity

Negative

#### Carcinogenicity

Negative

#### Other information

IARC, NTP, OSHA, ACGIH do not list this product or any components thereof as known or suspected carcinogen.

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity

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Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS No. 64742-65-0)

<b>Acute toxicity</b>	Fish NOEL ≥ 100 mg/l (96 hour) ( <i>P. promelas</i> ) Aquatic invertebrates: NOEL ≥ 10,000 mg/l (96 hour) ( <i>G. pulex</i> ) Algae NOEL ≥ 100 mg/l (72 hour) ( <i>P. subcapitata</i> )
<b>Long Term</b>	Aquatic invertebrates: NOEL = 10 mg/l (21 days) ( <i>D. magna</i> )  Microorganisms NOEL > 2.17 mg/l (4 days)
<b>Persistence and degradability - Bioaccumulative potential - Mobility in soil</b>	There is evidence of degradation in soil and water. The substance has low potential for bioaccumulation. The product has low mobility in soil.
<b>Results of PBT and vPvB assessment</b>	Not classified as PBT or vPvB.
<b>Other adverse effects</b>	None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

<b>Waste treatment methods</b>	Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.
<b>Additional Information</b>	None known.

## SECTION 14: TRANSPORT INFORMATION

	<b>Land transport (DOT)</b>	<b>Sea transport (IMDG)</b>	<b>Air transport (ICAO/IATA)</b>
<b>UN number</b>			
<b>Proper Shipping Name</b>			
<b>Transport hazard class(es)</b>			
<b>Packing Group</b>			
<b>Environmental hazards</b>			
<b>Special precautions for user</b>			
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b>	Not applicable		

## SECTION 15: REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture:**

**TSCA (Toxic Substance Control Act) - Inventory Status:** All components listed or polymer exempt.

**Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):**

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
None	----	----	----

**SARA 311/312 - Hazard Categories:** Refer to SECTION 2 – HAZARDS IDENTIFICATION

**SARA 313 - Toxic Chemicals (40 CFR 372):**

Chemical Name	CAS No.	Typical %wt.
None	----	----

**SARA 302 - Extremely Hazardous Substances(40 CFR 355):**

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None	----	----	----

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## SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

**Date of preparation:** December 13, 2020

**Additional Information:** None.

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