



# Material Safety Data Sheet

# Identification of the substance/preparation and company/undertaking

Material Name : Dr. SEAL Bitumen Primer

Uses : Bituminous Paint

Manufacturer/Supplier : Rich Innovation Marketing Inc.

826 Zacateros St. Sta. Cruz, Manila

Telephone : (02) 7333007 / (02) 7337783

Fax : (02) 7364589

# Composition/information on ingredients

**Preparation description** : A blend of components derived from crude

Petroleum oil, solvent and additives.

**Hazardous Components** 

Chemical CAS **EINECS** Symbol(s) R-phrase(s) Conc. Identity Kerosene 8008-20-6 232-366-4 Xi, Xn, N R10; R38; 40.00 - 60.00 % R65; R51/53 Additional Information Crude petroleum oil may contain trace levels of Hydrogensulphide (H2S). Refer to chapter 16 for full text of EC R-phrases.

Hazards identification

**EC Classification** : Flammable.

Irritant.

Dangerous for the environment.

**Health Hazards** : Hydrogen sulphide (H2S), an extremely flammable

and toxicgas, and other hazardousvapours may evolve and collect inthe headspace of storage tanks, transport vessels and otherenclosed containers. Hydrogen sulphide is highly toxic and may be fatal if

inhaled. May dull the sense of smell, so do not

rely on odour as an indication of hazard. Irritating to

skin.

Signs and Symptoms : Skin irritation signs and symptoms may include a

burningsensation, redness, swelling, and/or blisters.

Safety Hazards : Flammable.In use, may form flammable/explosive

vapour-airmixture.

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**Environmental Hazards** : Toxic to aquatic organisms, may cause long-term

adverse effects in the aquatic environment.

# **FIRST AID MEASURES**

**Inhalation** : If inhalation of mists, fumes or vapour causes

irritation to thenose or throat, remove to fresh air. If

rapid recovery does notoccur, obtain medical

attention. Casualties suffering ill effects

as a result of exposure to hydrogen sulphide should beremoved to fresh air. Do not attempt to rescue the victimunless proper respiratory protection is worn. If the victim hasdifficulty breathing or tightness of the chest, is dizzy,vomiting, or unresponsive, give 100% oxygen with rescuebreathing or Cardiopulmonary Resuscitation (CPR) asrequired and transport to the

nearest medical facility.

**Skin Contact** : Remove contaminated clothing. Flush exposed area

withwater and follow by washing with soap if available. If persistent irritation occurs, obtain medical

attention.

**Eye Contact** : Flush eye with copious quantities of water. If

persistentirritation occurs, obtain medical attention.

**In the unlikely event of ingestion, obtain medical** 

attentionimmediately. Do not induce vomiting.

Advice to Physician : Treat symptomatically. Call a doctor or poison control

centerfor guidance.

# FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

**Specific Hazards** : Flammable vapours may be present even at

temperatures below the flash point. The vapour is heavier than air, spreadsalong the ground and distantignition is possible. Willfloatand can be

reignited on surface water. Hazardous

combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds. Boil-over of tanks and violent

eruptions mayoccur in the presence of water.

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**Suitable Extinguishing** :Foam, water spray or fog. Dry chemical powder, carbondioxide, sand or earth may be used for small

fires only.

**Unsuitable Extinguishing** 

Media

**Protective Equipment for** 

Firefighters confined space.

: Do not use water in a jet.

: Proper protective equipment including breathing

apparatusmust be worn when approaching a fire in a

**Additional Advice** : Keep storage tanks, pipelines, fire exposed surfaces coolwith water delivered as a fine spray.

# **ACCIDENTAL RELEASE MEASURES**

Evacuate the area of all non-essential personnel. Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal.

Protective measures : Avoid contact with skin, eyes and clothing. Do not breathefumes, vapour. Remove all possible sources of ignition inthe surrounding area. Ventilate contaminated area thoroughly. Use spaces. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers.

Clean Up Methods : Small spillage

Soak up residue with an absorbent such as clay.

sandorother suitable material and dispose of properly. Useclean non-sparking tools to collect the material and place into a suitable, clearly marked container for disposal or reclamation in accordance with local regulations.

Large spillage:

Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Treat residues as for

smallspillage.

Additional Advice :Local authorities should be advised if significant

spillagescannot be contained.

# HANDLING AND STORAGE





**General Precautions** Extinguish any naked flames. Do not smoke.

Remove ignition sources. Avoid sparks. Take precautionarymeasures against static discharges.

Use local exhaust ventilation if there is risk of

inhalation of vapours, mists or aerosols.

Handling Avoid contact with skin, eyes, and clothing. Avoid

inhaling vapour and/or mists. Use only in

well-ventilated areas.

for quality, health and safety reasons do not exceed

therecommended storage and handling

temperature.Refer to the Technical Data Sheet for

correct storage and handling

temperatures.

Storage : Must be stored in a well-ventilated area, away from

sunlight, ignition sources and other sources of heat. Keep tanks covered and containers tightly closed when not in use. Bulk storage tanks should be diked (bunded). Do not smoke in storage areas.

0°C minimum. 30 °C / 86 °F maximum. **Storage Temperature** 

**Recommended Materials** For containers or container linings, use stainless

steel.

**Unsuitable Materials** For containers or container linings avoid PVC,

Polyethyleneor high density polyethylene.

# **EXPOSURE CONTROLS/PERSONAL PROTECTION**

# OCCUPATIONAL EXPOSURE LIMITS

Material	Source	Type	ppm	mg/m3	Notation
Hydrogen	ACGIH	TWA	10 ppm		
Sulphide					
	ACGIH	STEL	15 ppm		
	PH OEL	TWA 15	10 ppm	15 mg/m3	
	PH OEL	TWA	10 ppm	15 mg/m3	
Kerosine	ACGIH	TWA		200 mg/m3	P: Application
		[Nonaerosol.]			restricted to
					conditions in
					which there are
					negligible aerosol
					exposures. as total
					hydrocarbon
					vapor
	ACGIH	SKIN_DES			Can be absorbed

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	[Nonaerosol.]		through the skin.
			as total
			hydrocarbon
			vapor

Material Source

ACGIH Kerosine

**Hazard Designation** 

Confirmed animal carcinogen with unknown relevance to humans.

**Exposure Controls** 

:The level of personal protection and types of controlsnecessary will vary depending upon potential exposureconditions. Select controls based on a risk assessment of localcircumstances. Use sealed systems as far as possible. Useintrinsically safe, exhaust ventilation if there is a risk of inhalation of vapours, mists or aerosols. Eye washes and showers for emergency use. Wash hands before eating, drinking, smoking and using the toilet. Contaminated clothing must be removed as soon as possible. It must be relaunderedbefore reuse.

**Personal Protective** 

Equipment

: Personal protective equipment (PPE) should meetrecommended

national standards. Check with PPE suppliers.

**Respiratory Protection** 

: In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, selectrespiratory protection equipment suitable for the

specificconditions of use and meeting relevant legislation.

**Hand Protection** : PVC, neoprene or nitrile rubber gloves. Suitability and durability of a

> glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be

replaced.

**Eye Protection** 

: Wear safety glasses or full face shield if splashes are likely to occur.

**Protective Clothing** 

: PVC apron and sleeves, or full PVC covering. Safety boots -rubber, knee

length.

Environmental Exposure : Minimise release to the environment. An environmental assessment must be made to ensure compliance with local environmental legislation.

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#### PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Brown to black. liquid

Odour : Characteristic.
pH : Not applicable.
Initial Boiling Point and : Data not available

**Boiling Range** 

Softening point : Not applicable.

Flash point : Typical 23 - 55 °C / 73 - 131 °F (Pensky-Martens Closed Cup)

Upper / lower Flammability : Data not available

or Explosion limits

Vapour pressure : Data not available Specific gravity : Data not available

Density : ca. 900 - 1,100 kg/m3 at 25 °C / 77 °F

Water solubility : Insoluble. Solubility in other solvents : Soluble.

n-octanol/water partition

: Data not available

coefficient (log Pow)

Kinematic viscosity : 315 - 360 mm2/s at 25 °C / 77 °F

Vapour density (air=1) : Data not available Evaporation rate (nBuAc=1) : Data not available

Hygroscopicity : Negligible.

Decomposition : Data not available

Temperature

# STABILITY AND REACTIVITY

**Stability** : Stable under normal conditions of use.

Conditions to Avoid : Avoid heat, sparks, open flames and other ignition sources.

Materials to Avoid : Reacts with strong oxidising agents. Avoid contamination of

thermal insulation near hot surfaces by oil and bitumen and replace lagging where necessary, with a non-absorbent type of

insulation.

**Hazardous** : Hydrogen sulphide.

**Decomposition Products** 

### **TOXICOLOGICAL INFORMATION**

**Basis for Assessment**: Toxicological data have not been determined specifically for this product.

Information given is based on data on the components and the toxicology

of similar products.

Acute Oral Toxicity : Expected to be of low toxicity: LD50 > 5000 mg/kg , Rat

Acute Dermal Toxicity : Expected to be of low toxicity: LD50 > 5000 mg/kg , Rabbit

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Acute Inhalation Toxicity: Not considered to be an inhalation hazard under normal conditions of

use.

**Skin Irritation** : Irritating to skin.

**Eye Irritation** : Expected to be slightly irritating.

**Respiratory Irritation**: Inhalation of vapours or mists may cause irritation to the respiratory

system.

**Sensitisation** : Not expected to be a skin sensitiser.

Repeated Dose Toxicity: Not expected to be a hazard.

**Mutagenicity**: Not considered a mutagenic hazard.

Carcinogenicity : Bitumens are not classified as dangerous under EC criteria. Bitumens

contain low concentrations of Polycyclic AromaticCompounds (PACs). In undiluted bitumens these PACs are not considered to be bio-available. However, if bitumens are mixed with diluents to obtain a low viscosity at ambient temperatures, it is believed that such materials may become bio-available. Despite the known presence of PACs, experimental work has shown that the cutback bitumens we supply are unlikely to be

associated with carcinogenic effects.

Reproductive and

**Developmental Toxicity** 

: Data not available

# **ECOLOGICAL INFORMATION**

Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products.

**Acute Toxicity** : Poorly soluble mixture. May cause physical fouling of aquatic organisms.

Expected to be toxic: LL/EL/IL50 1-10 mg/l (to aquatic organisms) (LL/EL50 expressed as the nominal amount of product required to

prepare aqueous test extract).

**Mobility** : This product will form a film on the surface of water and spread. The

solvent will evaporate and the bitumen will adsorb to the sediment. In contact with soil, it can penetrate the upper layers and/or affect nearby watercourses before hardening. In time the solvent will evaporate.

**Persistence/degradability**: Expected to be not inherently biodegradable.

**Bioaccumulation** : Contains components with the potential to bioaccumulate.

Other Adverse Effects : Not expected to have ozone depletion potential, photochemical ozone

creation potential or global warming potential.

### **DISPOSAL CONSIDERATIONS**

Material Disposal : Recover or recycle if possible. It is the responsibility of the waste

generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal

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methods in compliance with applicable regulations. Do not dispose into

the environment, in drains or in water courses.

**Container Disposal** : Drain container thoroughly. After draining, vent in a safe place away from

sparks and fire. Residues may cause an explosion hazard. Do not, puncture, cut, or weld uncleaneddrums. Dispose in accordance with prevailing regulations, preferably toarecognised collector or contractor. The competence of the collector or contractor should be established

beforehand.

**Local Legislation**: Disposal should be in accordance with applicable regional, national, and

local laws and regulations.

#### TRANSPORT INFORMATION

Land (as per ADR classification): Regulated

Class : 3
Packing group : III
Hazard identification no. : 33
UN No. : 1993
Danger label (primary risk) : 3

Proper shipping name : FLAMMABLE LIQUID, N.O.S. (Turpentine substitiute)

**IMDG** 

Identification number UN 1993

Proper shipping name FLAMMABLE LIQUID, N.O.S.

Technical name (Turpentine substitiute)

Class / Division : 3
Packing group : III
Marine pollutant : No

# IATA (Country variations may apply)

UN No. : 1993

Proper shipping name : Flammable liquid, n.o.s.

Technical name : (Turpentine substitiute )

Class / Division : 3
Packing group : III

#### **REGULATORY INFORMATION**

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

EC Classification : Flammable. Irritant. Dangerous for the environment.

EC Symbols : Xi Irritant.

N Dangerous for the environment.

EC Risk Phrases : R10 Flammable.

R38 Irritating to skin.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects

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in the aquatic environment.

EC Safety Phrases : S16 Keep away from sources of ignition - No smoking.

S23 Do not breathe fumes, vapour or spray.

S51 Use only in well-ventilated areas.

S29 Do not empty into drains.

S61 Avoid release to the environment. Refer to special

instructions/Safety data sheets.

PICCS (PH) : All components

listed.

#### **OTHER INFORMATION**

R-phrase(s)

R10 Flammable.
R38 Irritating to skin.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

R65 Harmful: May cause lung damage if swallowed.

MSDS Version Number : 1.3

MSDS Effective Date : 29.06.2009

MSDS Revisions : A vertical bar (|) in the left margin indicates an amendment from the

previous version.

**Uses and Restrictions** : This product must not be used in applications other than those

recommended in Section 1, without first seeking the advice of the

supplier.

**MSDS Distribution** : The information in this document should be made available to all

who may handle the product.

**Disclaimer**: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.