

Doc. No. IMS-001-8.2 **Title:** Emergency Notification and Response Plan for MPCL Site

ANNEXURE - 5 MSDS of Hazardous Chemicals

<u>Status</u>	Prepared By	Reviewed & Checked by	Approved by
For issue	Dr. Ashok Kumar– HOD EHS	Er. T.K. Trehan– Plant In-Charge	Sh. O P Ajmera – ED & CEO
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MPCL HYDRO POWER LIMITED

<u>Status</u>	Prepared By	Reviewed & Checked by	Approved by
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Crown Trade Red Oxide Primer

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STABILITY

Stable under the recommended storage and handling conditions (see section 7).

CONDITIONS TO AVOID

Protect from frost, heat and sunlight.

MATERIALS TO AVOID

Keep away from oxidising agents and strongly alkaline and strongly acidic materials to prevent the possibility of exothermic reaction.

HAZARDOUS DECOMPOSITION PRODUCTS

In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide and oxides of nitrogen may be produced.

11 TOXICOLOGICAL INFORMATION

GENERAL INFORMATION

Exposure to organic solvent vapours in excess of the stated workplace exposure limit may result in adverse effects on the liver renal and central nervous systems.

INHALATION

Exposure through inhalation may result in the following effects: headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

INGESTION

Ingestion may result in the following effects: sore throat, abdominal pain, drowsiness, nausea, vomiting and diarrhoea. Other effects may be described as for exposure to vapours.

SKIN CONTACT

Solvents may cause the above effects by exposure through the skin. Repeated or prolonged contact with the product may lead to removal of natural fats from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

EYE CONTACT

Splashes in the eyes may cause irritation and reversible local damage.

HEALTH WARNINGS

At elevated temperature, may release 2-butanone oxime/ ethyl methyl ketoxime, which is classified as a category 3 carcinogen and as a skin sensitiser.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

These products have been assessed following the conventional method and are not classified as dangerous for the environment but contain substances dangerous for the environment. See section 3 for details. The product should not be allowed to enter drains or watercourses or be deposited where it can affect ground or surface waters. The Air Pollution Control requirements of regulations made under the Environmental Protection Act may apply to the use of this product.

13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION

When this coating, in its liquid state, as supplied or skinned, becomes a waste, it is categorised as hazardous waste, with code 08 01 11 (list of-wastes). Part used containers, not drained and/ or rigorously scraped out and containing dried residues of the supplied coating, are categorised as non-hazardous waste, with code 08 01 12 (list of wastes). Used containiners, drained and/ or rigorously scraped out and containing dried residues of the supplied coating, are categorised as non-hazardous waste, with code 15 01 02 or 15 01 04 (list of wastes). If mixed with other wastes, the above waste code may not be applicable.

DISPOSAL METHODS

Do not allow into drains or water courses or dispose of where ground or surface waters may be affected.

14 TRANSPORT INFORMATION



PROPER SHIPPING NAME

PAINT

ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE No.

SUBSTANCE/MARIN POLLUTANT UN NO. ROAD

1263

ADR CLASS NO. ADR CLASS

Class 3: Flammable liquids.

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Crown	Trade	Red	Oxide	Primer

SDS NO. Revision 10

RISK PHRASES IN FULL

Flammable. R10

Harmful by inhalation and in contact with skin. R20/21

Harmful if swallowed. R22

Harmful in contact with skin. R21

Harmful: may cause lung damage if swallowed. R65

Irritating to skin. **R38**

Limited evidence of a carcinogenic effect. R40

May cause sensitisation by skin contact. R43

Repeated exposure may cause skin dryness or cracking. R66 R41 Risk of serious damage to eyes.

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

Vapours may cause drowsiness and dizziness. R67

DISCLAIMER

The information provided in this safety data sheet is based on the present state of knowledge and current national legislation, it provides guidance on health and safety and environmental aspects and should not be construed as any guarantee of technical performance or suitability for particular applications. applications.

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MATERIAL SAFETY DATA SHEET

Paint Thinner

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Revision: 11/13/2008 Supercedes Revision: 09/25/2008

Fire Fighting Instructions

Self-contained respiratory protection should be provided for fire fighters fighting fires in buildings or confined areas. Storage containers exposed to fire should be kept cool with water spray to prevent pressure build-up. Stay away from heads of containers that have been exposed to intense heat or flame.

Flammable Properties and Hazards

Combustible Liquid.

Hazardous Combustion Products

Carbon dioxide, carbon monoxide, smoke, fumes, and/or unburned hydrocarbons.

Extinguishing Media

Use carbon dioxide, dry powder, or foam.

Unsuitable Extinguishing Media

No data available.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled

Clean up:

Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind, out of low areas, and ventilate closed spaces before entering. Shut off ignition sources; keep flares, smoking or flames out of hazard area.

Small spills:

Take up with sand, earth or other noncombustible absorbent material and place in a plastic container where applicable.

Large spills:

Dike far ahead of spill for later disposal.

Waste Disposal:

Dispose in accordance with applicable local, state and federal regulations.

7. Handling and Storage

recautions To Be Taken in Handling

Read carefully all cautions and directions on product label before use. Since empty container retains residue, follow all label warnings even after container is empty. Dispose of empty container according to all regulations. Do not reuse this container.

A static electrical charge can accumulate when this material is flowing through pipes, nozzles or filters, and when it is agitated. A static spark discharge can ignite accumulated vapors particularly during dry weather conditions. Always use proper bonding and grounding procedures.

Precautions To Be Taken in Storing

Keep container tightly closed when not in use. Store in a cool, dry place. Do not store near flames or at efevated temperatures.

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MATERIAL SAFETY DATA SHEET

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Paint Thinner

Revision: 11/13/2008 Supercedes Revision: 09/25/2008

10. Stability and Reactivity

ity: Unstable []

Stable [X]

Stability:

Conditions To Avoid - Instability

No data available.

Incompatibility - Materials To Avoid

Incompatible with strong acids, alkalies, and oxidizers such as liquid chlorine and oxygen.

Hazardous Decomposition Or Byproducts

Decomposition may produce carbon monoxide and carbon dioxide.

Hazardous Polymerization:

Will occur [] Will not occur [X]

Conditions To Avoid - Hazardous Polymerization

No data available.

11. Toxicological Information

No data available.

Carcinogenicity/Other Information

No data available.

ardous Components (Chemical Name) Stoddard solvent {Mineral spirits; Aliphatic Petroleum Distillates; White spirits} CAS# NTP 8052-41-3 n.a. IARC

ACGIH

OSHA

n.a.

n.a.

12. Ecological Information

No data available.

13. Disposal Considerations

Waste Disposal Method

Dispose in accordance with federal, state, and local regulations.

14. Transport Information

LAND TRANSPORT (US DOT)

DOT Proper Shipping Name
Additional Transport Information

Paint Related Material, Not Regulated

For D.O.T. information, contact W.M. Barr Technical Services at 1-800-398-3892.

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

15. Regulatory Information

US EPA SARA Title III

Hazardous Components (Chemical Name)

1. Stoddard solvent {Mineral spirits; Aliphatic Petroleum Distillates; White spirits}

CAS # Sec.302 (EHS) 8052-41-3 No Sec.304 RQ

Sec.313 (TRI)

No

Sec.110

No

SARA (Superfund Amendments and Reauthorization Act of 1986) Lists:

Sec.302:

EPA SARA Title III Section 302 Extremely Hazardous Chemical with TPQ. * indicates 10000 LB TPQ if not volatile.

Sec.304:

EPA SARA Title III Section 304: CERCLA Reportable + Sec.302 with Reportable Quantity. **

indicates statutory RQ.

Sec.313:

EPA SARA Title III Section 313 Toxic Release Inventory. Note: -Cat indicates a member of a

chemical category.

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EPA SARA 110 Superfund Site Priority Contaminant List

EPA Hazard Categories:

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

[X] Yes [] No Acute (immediate) Health Hazard [X] Yes [] No Chronic (delayed) Health Hazard

[] Yes [X] No Fire Hazard

[] Yes [X] No Sudden Release of Pressure Hazard

[] Yes [X] No Reactive Hazard

16. Other Information

Company Policy or Disclaimer

The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.

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Rosco Laboratories Inc. 52 Harbor View Avenue Stamford, CT, USA, 06902 Phone: (203) 708 8900

FLUORESCENT PAINT

MSDS Preparation Date: January 8, 2010

MSDS No.:5781

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MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name

FLUORESCENT PAINT

Fluorescent Paint - Orange

8 Drus

Product Use

Chemical Family

Supplier's name and address: Rosco Laboratories Inc.

52 Harbor View Avenue Stamford, CT, United States

24 Hr. Emergency Tel #

: (800) 424-9300

: Paint

HMIS Rating

: *- Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe

Health: * 2

Flammability:

WHMIS Classes:



SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

	1		ACGI	HTLV	озн	A PEL
Ingredients	CAS#	% (weight)	TWA	STEL	PEL	STEL
Formaldehyde	50-00-0	0.1 - 1.0	N/Av	N/Av	N/Av	N/Av

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Clear liquid. Pungent odor. Causes skin and eye irritation. Harmful if inhaled or swallowed Possible sensitizer. Contains material which can cause cancer.

POTENTIAL HEALTH EFFECTS

: None reported by the manufacturer.

Target organs Routes of exposure

: Inhalation: YES Skin Absorption: YES

Skin & Eyes: YES

Potential acute health effects :

Eyes:

Causes eye irritation. Prolonged or repeated exposure may be harmful to health. May cause conjunctivitis, irritation, and inflammation of mucous membranes. May cause burning sensation, redness and tearing (watering). Possible more irritation. Contains materials corrosive or severely irritating to the eyes. Temporary vision impairment (cloudy or blurred vision) is possible. Severe irritation, tissue damage, and possible blindness will result from direct contact.

Skin:

Irritating to skin. May cause mild to moderate skin irritation. Prolonged or repeated exposure may be harmful to health. Possible irritation, defatting or dermatitis (rash). Components of the product may be absorbed into the body through the skin. May cause central nervous system depression.

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MSDS Preparation Date: January 8, 2010

: 1.07 Specific gravity

Boiling point Melting/Freezing point : Not available. -19.39 °C Not available.

: Heavier than air.

Coefficient of water/oil distribution : Not available.

Vapor pressure (mmHg @ 20° C / 68° F)

Solubility in water

Vapor density (Air = 1)

Evaporation rate (n-Butyl acetate = 1)

: Slower than n-butyl acetate

Volatile organic Compounds (VOC's) (lbs/gal;g/l)

Volatiles (% by weight)

: 71.6

: Soluble

Viscosity

: Not available.

Special Remarks On Fire Hazards

Not flammable under normal conditions of use. This product will not burn, due to its water content. May spatter if the temperature exceeds the boiling point. Vapors may irritate eyes. May irritate skin.

SECTION 10 - REACTIVITY AND STABILITY DATA

Stability and reactivity

Stable under normal conditions. Will not occur.

Hazardous polymerization Conditions to avoid

High temperatures. Keep away from excessive heat, open flames, sparks and other possible sources of ignition. Oxidizing agents. Do not freeze.

Materials To Avoid And Incompatibility : See Section 7 (Handling and Storage) section for further details.

Hazardous decomposition products

: See hazardous combustion products.

	LCso(4hr)	L	D50	
Ingredients	inh, rat	oral	dermal	
Formaldehyde	308 mg/m3/2H (rat), 250 ppm/2H (rat)	100 mg/kg (rat)	300 mg/kg (rabbit)	
oxicological data arcinogenic status	 Contains the following chemical(s) carcinogen): formaldehyde. Contains the following chemical(s) formaldehyde. Contains the following chemical(s) formaldehyde. Contains the following chemical(s) 	Contains the following chemical(s) listed as Group 1 (Human Carcinogens) by IARC. formaldehyde. Contains the following chemical(s) listed as an Anticipated Carcinogen by NTP:		
eproductive effects eratogenicity utagenicity	 Not expected to have other reprod Not expected to be a teratogen. Contains a chemical or chemicals formaldehyde. 	that may be mutagens. T	his product contains:	
eproductive Effects ritancy	 Not expected to have other reproductive effects. Eyes, skin, respiratory system and digestive system. Formaldehyde is an eye and throat irritant and acute toxicant. 			
ensitization to material ynergistic materials	Skin and/or respiratory sensitizer. The product contains an ingredient which may enhance the effect of other carcinogens. This product contains: formaldehyde. may affect the nervous system.			

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FLUORESCENT PAINT

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Important environmental characteristics

: None known or reported by the manufacturer.

Ecotoxicological

: No data is available on the product itself.

SECTION 13 - DISPOSAL CONSIDERATIONS

Handling for Disposal Methods of Disposal

: See Section 7 (Handling and Storage) section for further details.

Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules. Do not puncture or incinerate. Contact waste disposal services.

SECTION 14 - TRANSPORTATION INFORMATION Packing Regulatory **Shipping Name** Class Group **UN Number** Information Label Not regulated TDG Not regulated. -None-None Additional 49CFR/DOT None Not regulated 49CFR/DOT None Not regulated Not regulated. -None ICAO/IATA None ICAO/IATA None. Additional information IMDG Not regulated. Not regulated -None IMDG Additional information

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

OS Federal Information:
All ingredients are listed on the TSCA Inventory, or are exempted materials.
SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This product may be subject to SARA notification requirements, since it contains Toxic Chemical constituents above their de minimus concentrations. This product contains: formaldehyde.
CERCLA Reportable Quantity (RQ) (40 CFR 117.302): formaldehyde: 100 lb, 45.4 kg.

US State Right to Know Laws:
California Proposition 65: This product contains a chemical known to the State of California to cause cancer and/or reproductive harm. This product contains: formaldehyde.

Canadian Regulations:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

Canadian WHMIS Classification: D2A, D2B.

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FLUORESCENT PAINT MSDS Preparation Date: January 8, 2010

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

SECTION 16 - OTHER INFORMATION

Legend

ACGIH: American Conference of Governmental Industrial Hygienists IARC: International Agency for Research on Cancer N/Ap: not applicable N/Av: not available NIOSH: National Institute of Occupational Safety and Health NTP: National Toxicology Program OSHA: Occupational Safety and Health Administration

Information obtained from sources including original supplier's Material Safety Data Sheet, and references including RTECS and CCOHS Cheminfo.

References

Prepared for: Rosco Laboratories Inc. 52 Harbor View Avenue Stamford, CT, USA, 06902 Phone: (203) 708 8900

http://http://www.rosco.com/

Prepared by: ICC The Compliance Center Inc. Canada: 1-888-977-4834 USA: 1-888-442-9628

http://www.thecompliancecenter.com





DISCLAIMER OF LIABILITY

Every effort has been made to ensure that the safety information on this sheet is accurate, but because Rosco Laboratories, Inc. has no control over the conditions under which the product will be used, liability is limited exclusively to replacement or refund of the purchase price of this product. Except as stated herein, there are no express or implied warranties, including implied warranties of merchantability or fitness for a particular purpose. Rosco Laboratories, Inc. assumes no liability for injury or incidental or consequential damages arising out of storage, handling or use of this product.

Preparation Date:

January 8, 2010

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MATERIAL SAFETY DATA SHEET

VALVOLINE CUMMINS LTD.

Page: 1 of 7 Date Issued: **May 28, 2003** No: 043052003

Valvoline Premium Blue 15W-40

CHEMICAL PRODUCT AND COMPANY INDENTIFICATION

Material Identity
Product Name: Valvoline Premium Blue 15W-40

Company Valvoline Cummins Ltd. 278, Udyog Vihar, Phase - II Gurgaon – 122016

Telephone Numbers Emergency: 91-124 4721200

COMPOSITION / INFORMATION ON INGREDIENTS

CAS Number %(by weight) PARAFFINIC MINERAL OIL ENGINE OIL ADDITIVE ZINC COMPOUNDS 64742-54-7 74.0-84.0 8.0- 18.0 1.0- 6.0

HAZARDS IDENTIFICATION

Potential Health Effects

Eye

May cause mild eye irritation.

Skin

Prolonged or repeated contact may dry and crack the skin.

Swallowing

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

Inhalation

Breathing of vapor or mist is possible. Breathing small amounts of this material during normal handling is not likely to cause harmful effects.

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea) irritation (nose, throat, airways).

Target Organ Effects No data

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MPCL HYDRO POWER LIMITED

Doc. No. IMS-001-8.2

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Date Issued: May 28, 2003 No: 043052003

Valvoline Premium Blue 15W-40

Storage

Keep containers closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection

Not required under normal conditions of use. However, if misting or splashing conditions exist, then safety glasses or chemical splash goggles are advised.

Skin Protection

Not normally required. However, wear resistant gloves such as nitrile rubber to prevent irritation, which may result from, prolonged or repeated skin contact with product.

Respiratory Protections

Not required under normal conditions of use. However, if oil mists are generated above recommended PEL/TLV of 5 mg/m3, then a NIOSH/MSHA approved respirator is advised in absence of proper environmental control. (See your industrial hygienist.)

Engineering Controls

Not required under normal conditions of use. However, if unusual operating conditions exist, then provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below PEL/TLV (s).

Exposure Guidelines Component

PARAFFINIC MINERAL OIL (64742-54-7) OSHA VPEL 5.000 mg/m3 - TWA ACGIH TLV 5.000 mg/m3 - TWA

ENGINE OIL ADDITIVE No exposure limits established

ZINC COMPOUNDS No exposure limits established

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point

(for component) > 425.0 F (218.3 C)

Vapor Pressure

No data

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MPCL HYDRO POWER LIMITED

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MATERIAL SAFETY DATA SHEET

VALVOLINE CUMMINS LTD.

Page: 6 of 7 Date Issued: **May 28, 2003** No: **043052003**

Valvoline Premium Blue 15W-40

Chemical Stability Stable.

Incompatibility

Avoid contact with: acids, halogenated hydrocarbons, halogens, strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

No data

12. ECOLOGICAL INFORMATION

No data

13. DISPOSAL CONSIDERATION

Waste Management Information

Dispose of in accordance with all applicable local, state and federal regulations.

14. TRANSPORT INFORMATION

DOT Information - 49 CFR 172.101

DOT Description: Not Regulated

Container/Mode:

CASES/SURFACE - NO EXCEPTIONS

NOS Component:

None

RQ (Reportable Quantity) - 49 CFR 172.101

Not applicable

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INDIAN OIL CORPORATION LTD MARKETING DIVISION, MUMBAI

MATERIAL SAFETY DATA SHEET

PRODUCT INFORMATION:

Trade Name: Servo Superior 20W-40 Name of Manufacturer: Indian Oil Corporation Ltd. Chemical Nature/Composition: Mineral oil - 80 %wt Additive package (Antioxidant, Antiwear, Antifoam, PPD) = 20% End Use: Automotive Lubricating Oil for Crankcase

HAZARDOUS INGREDIENTS:

FIRE AND EXPLOSION HAZARDS:

Flash Point, °C, COC

Extinguishing Media: Foam, Dry Chemical Powder, Carbon dioxide Special Fire Fighting Procedures: To control big fires, exposed containers should be cooled ed

with the help of water. Use protective appliances, Mask,

HEALTH HAZARD DATA:

Acute oral Toxicity (LD-50): In Rats
Male > 25,000 mg/kg, B,Wt.

Female > 25,000 mg/kg. B.Wt.

Toxicity to fresh water fish (LC-50): > 5,000 mg/litre

Eye Irritation: May be irritant

EMERGENCY FIRST AID PROCEDURES:

Eyes: Flush with fresh water for at least 15 Minutes. Seek medical aid. Skin: Wash with soap and water.

Ingestion: Do not induce vomiting. Give water, liquid paraffin, olive oil or vegetable oil

Inhalation : Remove to fresh air. Seek medical aid.

SPECIAL PROTECTION INFORMATION:

Ventilation: Mechanical ventilation recommended. Cloves: Neoprene or nitrile rubber gloves recommended. Goggles: Chemical splash goggles.

Others: Use apron also.

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Title: Emergency Notification and Response Plan for MPCL Site

16 SAFETY DATA SHEET 1. CHEMICAL IDENTITY CHEMICAL NAME Diesel CHEMICAL CLASSIFICATION Hydrocarbon HSD NA TRADE NAME C.A.S. No. Complex mixture of hydrocarbon 1202 Diesel RED -Flammable liquid SHIPPING NAME CODES/LABEL
HAZARDOUS WASTE I.D. NO. HAZARDOUS INGREDIENTS HAZARDOUS INGREDIENTS C.A.S. No. C.A.S. No 2. PHYSICAL AND CHEMICAL DATA PHYSICAL STATE
MELTING/FREEZING POINT °C
ODOUR BOILING RANGE / POINT °C
APPEARANCE
VAPOUR PRESSURE 150 - 400 Liquid - 46 to 18 Diesel like Light Brown @ 38°C, mm/Hg
VAPOUR DENSITY (AIR = 1)
OTHERS SOLUBILITY IN WATER @ 30 SPECIFIC GRAVITY 20°C 3 to 5 3. RIRE AND EXPLOSION HAZARD DATA LEL %
AUTO IGNITION
TEMPERATURE °C
UEL %
EXPLOSION SENSITIVITY
TO STATIC ELECTRICITY
HAZARDOUS
POL VARIENS AT ION Moderate 32 to 96 256.6 TDG FLAMMABILITY
EXPLOSION SENSITIVITY TO IMPACT
HAZARDOUS COMBUSTION
PRODUCTS
COMBUSTIBLE LIQUID
CORROSIVE MATERIAL
OXIDISER CO on incomplete combustion NO HAZARDOUS
POLYMERISATION
EXPLOSIVE MATERIAL
FLAMMABLE MATERIAL
OTHERS
ORGANIC PEROXIDE may be produced.
YES
NO
NO
NO NO YES Nil PYROPHORIC MATERIAL NO 4. REACTIVE DATA CHEMICAL STABILITY INCOMPATIBILITY WITH Stable
Strong oxidizing agents. OTHER MATERIAL
REACTIVITY
HAZARDOUS REACTION Keep away from heat and open flame

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	5. HEALT	TH HAZARD	DATA			
	ROUTES OF I	ENTRY	Inhalation, Ingestion and	Absorption.		¬ ' '
	EFFECTS OF		INHALATION: Headac	he, dizziness, difficulty in brea	thing, loss of consciousness.	- "
	/ SYMPTOMS		INGESTION : Causes			1 .
			ABSORPTION: Irritatin	g to skin and eyes.		1
	EMERGENOV	_	-INHALATION - Remov	e victim to fresh air, give artif	icial respiration or	
	TREATMENT			if breathing is labored.		1
				fuce vomiting, give fiquid para		1
			CONTACT : Remove co water.	ntaminated cloths, wash effect	ted body parts with plenty of	1
	TLV(ACGIH)		5mg./m³ (Inhalation)	STEL	10mg/m³	1.
)	PERMISSIBLE	EXPOSURE	NA	ODOUR THRESHOLD	0.1ppm	-
	LIMIT LD 50		4 2 2			
	NEPA HAZAR	D SIGNALS	HEALTH 0	FLAMMABILITY 2	STABILITY 0	
,			SPECIAL	NO		· ·
						١,,,
	5. PREVEN	NTIVE MEAS	SURES			
	PERSONNEL PROTECTIVE	EY	ES: Goggles/ face shield.			
	EQUIPMENT	RES	SPIRATORY : Self contain	ned Breathing apparatus for co	ntaminants/ clean up.	a in man-tro en una retata 164 e los
		HAI	ND: Rubber gloves.			1
	L	Bod	y : Rubber clothing.]
	7. EMERGI	ENCY AND I	FIRST AID MEASUR	RE		
	FIRE F	FIRE EXTINGUISHIN		water may be ineffective and c		1
		MEDIA		posed containers. Apply water a not ignited use water spray to di		
)		SPECIAL		c. Water may be used to flush s		
,						
		PROCEDURES		ar along vapor trail . Vapor may	explode if ignited in an	
	P U	PROCEDURES	Flashback may occur enclosed area.	ur along vapor trail . Vapor may	explode if ignited in an	
	EXPOSURE F	PROCEDURES UNUSUAL HAZARDS	enclosed area. INHALATION : Re	move the victim to fresh air . O	live artificial respiration .	
	EXPOSURE F	PROCEDURES UNUSUAL HAZARDS	enclosed area. INHALATION : Re		live artificial respiration .	
	EXPOSURE F	PROCEDURES UNUSUAL HAZARDS FIRST	enclosed area. INHALATION : Re	move the victim to fresh air . O	live artificial respiration .	Mini Bakuda pula Sali ya ya ikusali sala suan
	EXPOSURE F	PROCEDURES UNUSUAL HAZARDS FIRST	enclosed area. INHALATION : Re	move the victim to fresh air . O	live artificial respiration .	Plainte com de contract est est est est est est est est est es
	EXPOSURE F	PROCEDURES UNUSUAL HAZARDS FIRST	enclosed area. INHALATION : Re	move the victim to fresh air . O	live artificial respiration .	Michigan phis in it was had been after
	EXPOSURE F	PROCEDURES UNUSUAL HAZARDS FIRST	enclosed area. INHALATION : Re	move the victim to fresh air . O	live artificial respiration .	Philippin completely were about the second
	EXPOSURE F	PROCEDURES UNUSUAL HAZARDS FIRST	enclosed area. INHALATION : Re	move the victim to fresh air . O	live artificial respiration .	
	EXPOSURE A A A	PROCEDURES UNUSUAL HAZARDS FIRST HID MEASURES	enclosed area. INHALATION : Re	move the victim to fresh air . O	live artificial respiration .	PROCESSION OF THE STATE OF THE
	EXPOSURE F	PROCEDURES UNUSUAL HAZARDS FIRST HID MEASURES	enclosed area. INHALATION : Re	move the victim to fresh air . O	live artificial respiration .	PELISING COLD IN COLD WAS AND COLD COLD COLD COLD COLD COLD COLD COL
	EXPOSURE A A A	PROCEDURES UNUSUAL HAZARDS FIRST HID MEASURES	enclosed area. INHALATION : Re	move the victim to fresh air . O	live artificial respiration .	PETER BOOK COLOT AND

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🗆 - BASF

The Chemical Company

Material Safety Data Sheet **GLENIUM B 233**

BCCI - 02 15 September 2010

Fire and explosion protection

No special measures required, Keep tightly sealed; store in shaded area and away from direct sunlight. Protect from extremes heat and cold.

EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

Engineering controls

Natural ventilation is adequate under normal use conditions. Keep containers closed when not in use.

Personal Protective equipment Respiratory protection Eye protection Skin protection

Not normally required. Avoid mist Safety goggles. Impervious protective hand gloves or barrier

Impervious protective hand gloves or barrier cream. General protective clothing such as overalls or long pants and a long sleeve shirt or a chemical apron. Remove contaminated clothing as soon as possible. Launder thoroughly before reusing. For large spills or ponded areas impervious footwear is preferred. Observe the usual precautions when handling chemicals.

Wash hands before breaks and after finishing work. Do not eat, drink or smoke at workplace.

Industrial Hygiene

PHYSICAL AND CHEMICAL PROPERTIES

Form Liquid Light brown Odor Characteristics Change in physical state
Boiling point
Melting point
Flash Point > 100°C Not applicable Not applicable Not applicable Not determined Auto-ignition temperature Thermal decomposition Specific gravity (25°C) ≈ 1.2 Vapor pressure, mbar Viscosity (25°C) Not determined ≈ 50- 150 cps 6 - 9 Soluble

10. STABILITY AND REACTIVITY

Solubility in water

Hazardous decomposition products

Stable under normal storage conditions. No hazardous reactions and decomposition products are formed.

Hazardous reactions

INFORMATION ON TOXICITY In our experience and according to the information available to us the product is not harmful to health provided it is handled and used in accordance with given recommendations.

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3.1

Conditions to Avoid:

Materials to Avoid:

Strong oxidising agents. Strong acids. Strong alkalis

Temperatures (°C) below 0°.

11: TOXICOLOGICAL INFORMATION

Oral toxicity: Mice (Female) LD50, 5/0 mg/kg.

May cause transient irritation.

Unlikely to cause harm on brief or occasional contact.

By Inhalation: Low volatility makes inhalation unlikely at ambient temperatures.

By Ingestion: Low order acute toxicity. May cause irritation of mouth, throat and digestive tract.

Chronic:

None known.

12: ECOLOGICAL INFORMATION

Environmental Assessment:

When used and disposed of as intended, no adverse environmental effects are foreseen.

Mobility:

Mobile liquid. Soluble in water.

Persistence and Degradability:

Bioaccumulative Potential:

Not expected to be bioaccumulative

Ecotoxicity:

Expected to be ecotoxic to fish/daphnia/algae.

13: DISPOSAL CONSIDERATIONS

Disposal must be in accordance with local and national legislation.

Unused Product:

Dispose of through an authorised waste contractor to a licensed site.

Used/Contaminated Product: As for unused product.

Packaging:

UN/SI Number:

The method of disposal must be acceptable to the local authority.

14: TRANSPORT INFORMATION

Packing Group:

Marine Pollutant: No

IMO: IATA/ICAO: ADR:

Class: 5.1/6.1 Class: 5.1

Packing Group: Item:

ш 30 (c)

Transport Name: Oxidizing liquid, toxic, nos. (Sodium nitrite solution) Hazchem/Kemler Code: 2W / 56

15: REGULATORY INFORMATION

Hazard Label Data:

Named Ingredients:

Sodium nitrite solution

UN Number: Symbol (s):

3099 T,O

Date: o01.10.1996

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lisk Phrases:

Toxic if swallowed.

Contact with combustible material may cause fire.

Keep away from combustible material.

Safety Phrases:

Wear suitable protective clothing, gloves and eye/face protection.

In case of accident or if you feel unwell, seek medical advice immediately (show the I

label where possible).

EC Directives:

Dangerous Substances Directive, 67/548/EEC and adaptations.

Dangerous Preparations Directive, 88/379/EEC.
Safety Data Sheets Directive, 91/155/EEC.

Statutory Instruments:

Chemicals (Hazard Information and Packaging for Supply) (Amendment) Regs 1996

(SI 1092)

Control of Substances Hazardous to Health Regs. 1994 (SI 3246).



The above publications are available from HMSO

16: OTHER INFORMATION

The data and advice given apply when the product is used for the stated application or applications. The product is not sold as suitable for any other application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet. The product should not be used other than for the stated application or applications without seeking advice from Fosroc,

If this product has been purchased for supply to a third party for use at work, it is the purchaser's duty to take all necessary steps to secure that any person handling or using the product is provided with the information in this sheet.

It is the responsibility and duty of the employer to inform employees and others who may be affected of any hazards described in this sheet and of any precautions, which should be taken.

This sheet does not constitute or substitute for the users own assessment of workplace risk, as required by other health and safety legislation.

Further copies of this Safety Data Sheet may be obtained from Fosroc

Date: 01.10.1996

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density/Specific

Not available. Not available

Viscosity

Kinematic: 8 mm²/s (8 cSt) et 40°C

10 . Stability and reactivity

Stability

The product is stable. Avoid extreme temperatures, strong oxidizers, fire

Conditions to Avoid

Incompatibility with various substances/Hazardous Reactions

Hezardous polymerization

Will not occur These product carbon oxides

Products 11. Toxicological information

Effects and symptoms

Eyes Skin Inhalation Ingestion

Unlikely to cause more than transient stinging or redness if accidental eye contact occurs Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis. Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation Unlikely to cause harm, if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhoea.

Chronic toxicity Carcinogenic effects

No component of this product at levels greater than or equal to 0.1% is identified as a carcinogen by ACGIH, the International Agency for Research on Cancer (ARC), the European Commission (EC), or the National Occupational Health and Safety Commission (Australia).

12 . Ecological information

Ecotoxicity

Not classified as environmentally hazardous in accordance with the 'Approved Criteria for Classifying Hazardous-Substances' [NOHSC-(1008)/2004 as emended and adapted].

Reactive or incompatible with the following materials: oxidizing materials

Biodegradability

Persistence/degradability

The biodegradability of this material has not been determined.

13 . Disposal considerations

Disposal Consideration / Waste information

Avoid contact of spilled material and runoff with soft and surface waterways.—Consult an environmental professional to determine if local, regional or national regulations would classify spilled or contaminated materials as hazardous waste. Use only approved transporters recyclers, transment, storage or disposal facilities. Dispose of in accordance with all applicable local and national regulations.

Special Precautions for Landfill or Incineration

No additional special precautions identified.

14. Transport Information

Not classified as dangerous for transport (ADG, IMDG, ICAO/IATA).

Special precautions for user

No known special precautions required. See Section: "Handling and storage" for additional information

15 . Regulatory Information

Standard for the Uniform Scheduling of Drugs and Poisons

Not regulated

Control of Scheduled Carcinogenic Substances

Ingredient name

Other Classification Information

Other regulations Inventories

Europe inventory: All components are listed or exempted.

United States Inventory (TSCA 8b): All components are listed or exempted

Australia inventory (AICS): All components are listed or exempted.

Canada inventory: All components are listed or exempted. China inventory (IECSC): All components are listed or exempted.

Product name Transformer Oil

Product code 461633-AU01

Schedule

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Japan inventory (ENCS): All components are listed or exempted Korea Inventory (KECI): All components are listed or exempted. Philippines inventory (PICCS): All components are listed or exempted

16 . Other information

Key to abbreviations

AMP = Acceptable Maximum Peak

ACGIH = American Conference of Governmental Industriel Hygienists, an agency that promulgates exposure standards.

ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail

ADG Code = Australian Code for the Transport of Dangerous Goods by Road and Rail

ADG Code = Emergency action code for the Transport of Dangerous Goods by Road and Rail

CAS Number = Chemical Abstracts Service Registry Number

HAZ CHEM Code = Emergency action code of numbers and letters which gives information to emergency services. Its use is required by the ADG Code for Dangerous Goods in bulk.

ICAO = International Civil Aviation Organization.

IATA = International Air Transport Association, the organization promulgating rules governing shipment of goods by air.

IATA = International Air Transport Association, the organization promulgating rules governing shipment of goods by air.

IMD0 = International Meritime Organization Rules, rules governing shipment of goods by water.

IP 346 = A chemical screening assay for dermal toxicity. The European Commission has recommended that Mathod IP 346 be used as the basis for labelting certain lubricant oil base stocks for carcinogenicity. The EU Commission has stipulated that the classification as a cercinogen need not apply if it can be shown that the substance contains less than 39 DMSO extract as measured by IP 346. (See Note L, European Commission Directive 67/548/EEC as amended and adapted.) DMSO is a solvent.

NOHSC = National Occupational Health & Safety Commission, Australia

TWA = Time weighted average

STEL = Short term exposure limit

UN Number = United Nations Number, a four digit number assigned by the United Nations Committee of Experts on the Transport of Dengerous Goods.

Date of Issue

Date of previous issue

20/07/2007. No Previous Validation

Product Stewardship Prepared by

All reasonably practicable stops have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the data specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other the stated application or applications without seeking advice from us.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hezards described in this sheet and of any precautions that should be taken.



Product name Transformer Oil

Product code 461633-AU01

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The Chemical Company

Material Safety Data Sheet RHEOBUILD SP1

Revision Date

BCCI - 02 15 September 2010

PRODUCT AND COMPANY IDENTIFICATION

Product Name

Manufacturer

IFICATION
RHEOBUILD SP1
BASF Construction Chemical India Pvt. Ltd.
C-68, MIDC, Thane Belapur Road,
Turbhe, Navi Mumbai - 400 613
Telephone No : +91-22-41577777
Fax No : 91-22-41577766

Emergency Contact No : +91-22-67917217

HAZARDS IDENTIFICATION

No hazards known. If the product adheres to skin, irritation may occur after drying.

COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization

Aqueous solution containing sodium salts of sulphonated polymers, preservatives and water

soluble salts. None

Hazardous ingredients

FIRST AID MEASURES
Eye contact

Skin contact

Inhalation

Flush immediately with plenty of water for at least 15 minutes. If irritation persists, get medical attention.

Remove contaminated clothes immediately Wash affected area with soap and plenty of

Remove affected person to fresh air. If Symptoms persist obtain medical attention.

5. FIRE FIGHTING MEASURES

Suitable Extinguish media

Water spray, dry extinguishing media, carbon dioxide or universal foams Contaminated extinguishing water must be disposed of in accordance with local regulations.
None. Product is non-combustible.

Combustion products

ACCIDENTAL RELEASE MEASURE

After spillage/leakage

Wipe up with absorbent tissues, sand or cloth. Remove any spill residues with small amount of water. Dispose according to local regulations. Do not discharge product into natural waters without or treatment.

without pr-treatment.

Environmental precautions HANDLING AND STORAGE

Handling

No special measures required.

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For issue	Dr. Ashok Kumar– HOD EHS	Er. T.K. Trehan– Plant In-Charge	Sh. O P Ajmera – ED & CEO
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