

DRD

DRD ADDITIVES, LLC

MATERIAL SAFETY DATA SHEET

Product and Company	Identification
Material name	BD 0938
Finalized on	29-Sep-11
CAS-No.	Mixture
Product use	Additive for Distillate Fuels such as Diesel Fuel
Company information	DRD ADDITIVES, LLC. 1194 NORTH CREST DRIVE ROCKFORD, IL 61107

**For Chemical Emergency
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night**

**Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1 703-527-3887 (collect calls accepted)**

For information regarding the MSDS contact the MSDS Manager. For Technical Information or Literature contact Customer Service.

1.	Composition / Information	on Ingredients
.Ingredient:	%WW	TLV
CAS NO.		
DIMETHYLBENZENE (MIXED ISOMERS) 1330-20-7	60-80	100PPM
ETHYLBENZENE 100-41-4	10-20	100PPM
DI-2-4-CYCLOPENTADIEN-1-YLIRON PROPRIETARY	0.2-2	10MG/M

2. Hazards Identification

EXPOSURE GUIDLINES.

DIMETHYLBENZENE (MIXED ISOMERS)	OSHA PEL & ACGIH TLV: 100PPM- TWA OSHA VPEL & ACGIH TLV: 150 PPM-STEL
ETHYLBENZENE	OSHA PEL & ACGIH TLV: 100PPM-TWA OSHA VPEL & ACGIH TLV: 125PPM-STEL
IRON ORGANOMETALLIC COMPOUNDS	OSHA PEL 15MG/M3 – TWA TOTAL DUST OSHA PEL 5 MG/M3 – TWA RESPIRABLE FRACTION

Potential short term health effects

Eyes MAY CAUSE IRRITATION, REDNESS, TEARING & BLURRED VISION

Skin MAY CAUSE IRRITATION, PROLONGED OR REPEATED CONTACT MAY DRY THE SKIN.

SYMPTOMS INCLUDE REDNESS, BURNING, SKIN BLISTERING, DRYING AND CRACKING OF SKIN.

Inhalation IF AFFECTED, REMOVE INDIVIDUAL TO FRESH AIR. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION.

KEEP PERSON WARM, QUIET AND GET MEDICAL ATTENTION.

Ingestion HARMFUL IF LARGE AMOUNTS ARE SWALLOWED. CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING AND DIARRHEA. ASPIRATION OF MATERIAL INTO LUNGS CAN CAUSE CHEMICAL PNEUMONITIS, WHICH CAN BE FATAL.

(MIXED ISOMERS)	LD 50 (DML-RBT)	>2000MG/KG
	LC 50 (INH-RAT-4HR)	>5000PPM
ETHYL BENZENE	LD50 (ORL-RAT)	4300MG/KG
	LD50 (ORL-RBT)	>3.9ML/KG
	LD 50 (INH-RAT-4HR)	>6700PPM

IRON ORGANOMETALLIC

COMPOUNDS	LD 50 (ORL-RAT)	1320 MG/KG
	LD 50 (SKIN-RBT)	3000 MG/KG
	LC 50 (INH-RAT-4HR)	150 MG/M3/4H

3. **First Aid Measures?**

Eye contact Flush eyes with water as a precaution. If irritation persists get medical attention.

Skin contact Wash with soap and water. Get medical attention if irritation develops or persists.

Inhalation IF AFFECTED, REMOVE INDIVIDUAL TO FRESH AIR, IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. IF BREATHING HAS STOPPED, GIVE ARTIFICAL RESPIRATION. KEEP PERSON WARM, QUIET AND GET MEDICAL ATTENTION.

Ingestion DO NOT INDUCE VOMITING. KEEP INDIVIDUAL WARM, QUIET AND GET MEDICAL ATTENTION.

Notes to physician Not established.

5. Fire Fighting Measures?

Flash Point	80 F Cleveland Open Cup
Flammability Class	Combustible IIIB
General fire hazards	Not a fire hazard.
Unusual fire & explosion hazards	Not established.
Hazardous combustion products	Not established.
Fire fighting equipment/instructions	In the event of fire, wear self contained breathing apparatus AND FULL FACEPIECE OPERATED IN POSITIVE PRESSURE DEMAND MODE.
Special protective equipment for firefighters	WEAR SPLASH GOGGLES, WEAR RESISTANT GLOVES AND IMPERVIOUS CLOTHING
Extinguishing media which must not be used for safety reasons	FOAM, WATER FOG, DRY CHEMICAL OR CO2
Specific methods	Not established.

6. Accidental Release Measures

Evacuation procedures	Stay upwind. Keep unnecessary personnel away.
Containment procedures	Stop the flow of material, if this is without risk. Prevent entry into waterways, sewers, basements or confined areas.
Personal precautions	Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
Environmental precautions	Runoff from fire control or dilution water may cause pollution.
Methods for cleaning up	Attempt to reclaim the free product, if this is possible. Soak up with oil absorbent material. or Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Prevent product from entering drains.
Spill or leak procedure	Not established.

7. Handling and Storage?

Handling	Do not get this material in contact with skin or eyes. Do not breathe gas/fumes/vapor/spray. Do not handle or store near an open flame, heat or other sources of ignition.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.
Special packaging materials	Not established.

Material Name BD0938

Print Date

(MSDS US) 2/5

8. Exposure Controls / Personal Protection

Personal protective equipment

Respiratory protection No personal respiratory protective equipment normally required.

Hand protection Impervious gloves.

Eye protection Wear safety glasses with side shields.

Skin and body protection Wear suitable protective clothing.

General No special protective equipment required.

Engineering measures to reduce exposure Not established.

Control parameters Not established.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls Not established.

8. Physical & Chemical Properties

Form Liquid.

Color brown

Odor **LIGHT AROMATIC**

Appearance **CLEAR**

Oxidizing properties Not established.

Specific Gravity 0.874 @ 25C

Viscosity .7 CPS

FLASH POINT (CC) 80 F

AUTO IGNITION TEMP 980 F

NFPA RATING **HEALTH-2;FLAMMABILITY-3;REACTIVITY-0**

EPA DESIGNATION U239

RTECS ZE2100000

9. Chemical Stability & Reactivity Information

Stability Stable at normal conditions of use.

Conditions to avoid Avoid high temperatures.

Hazardous decomposition products Carbon oxides.

Hazardous polymerization Will not occur.

Incompatibility Strong acids, alkalies and oxidizing agents.

Materials to avoid None known.

10. Toxicological Information

Toxicological information **SEE PARAGRAPH 3.**

Acute Toxicity **SEE PARAGRAPH 3.**

Local effects May cause eye/skin irritation. May cause irritation of respiratory tract.

Component analysis **SEE PARAGRAPH 3 .**

Pre-existing conditions aggravated by exposure Not established.

Synergistic materials Not established.

Epidemiology	Not established.
Neurotoxicity	Not established.
Carcinogenicity	SEE PARAGRAPH 3
Mutagenicity	Not established.
Teratogenicity	Not established.
Chronic toxicity	None known.
Subchronic toxicity	Not established.
Human experience	Not established.
Symptoms and target organs	Not established.
Further information	This product has no known adverse effect on human health.
Reproductivity	Not established.
Routes of exposure	Skin contact. Inhalation. Ingestion

12. Ecological Information

Ecotoxicity	Not established.
Environmental effects	Ecological injuries are not known or expected under normal use.
Persistence / degradability	Not established.
Bioaccumulation	Not established.
Aquatic toxicity	Not established.
Partition coefficient	Not established.

13. Disposal Considerations

Waste Codes	Not established.
Disposal instructions	Dispose in accordance with all applicable regulations.
Waste from residues / unused products	Not established.
Contaminated packaging	Not established.

14. Transportation? Information

DOT classification	FLAMABLE LIQUID N.O.S. [XYLENE)
UN NUMBER	UN 1307
HAZZARD CLASS	3
PACKING GROUP	III
EPA DESIGNATION	U239
NMFC#	155250-1
FREIGHT CLASS	85
RTECS	ZE2100000

15. Regulatory Information?

Inventory status

Country(s) or Region	Inventory Name	On Inventory (Yes/No)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (CCS)	No
Europe	European Inventory of New and Existing Chemicals (FINECS)	No

Europe	European List of (ELINCS)	No
Japan	Japanese Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Korean Inventory of Chemicals (KICS)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

International regulations Not established.

US Federal Regulations Not established.

State Regulations Not established.

Occupational Safety and Health Administration (OSHA)

1910.H.119 PSM Highly Hazardous Chemicals Not Listed

1910.Z.1200 Hazardous Chemical Not Listed (See Section 2)

EPA

CERCLA 302.4 List of Hazardous Substances Not Listed

CWA 116.4 List of Hazardous Substances Not Listed

CERCLA 372 SARA Title III 313 Toxic Chemicals/Categories Not Listed

CAA Hazardous Air Not Listed

Pollutant Immediate Hazard - No

CERCLA SARA Title III 311/312 Hazard Categories Delayed Hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

WHMIS Status Non-controlled

HMIS Ratings Health 1

Flammability Classification 1

Physical 1

Pers. Prot A

NFPA Ratings Health 2

Flammability Classification 3

Instability 0

Labelling Not established.

16. Other Information?

Disclaimer Not established.

Recommended use Not established.

Recommended restrictions Not established.

Further information Not established.

