



MATERIAL SAFETY DATA SHEET

SECTION 1: Chemical Product and Company Identification

Material Name: BOSS Multi-Vehicle ATF Synthetic Blend

Material uses: Synthetic Blend Automatic Transmission Fluid

BOSS LUBRICANTS

112, 6303 -30 ST SE

Calgary, AB

T2C 1R4

Issue Date: 20/01/2015

Supersedes Issue Date 01/01/2011

Information: 1-800-844-9457

Emergency: 1-800-844-9457

www.bosslubricants.com

Section 2: Hazardous Identification

OSHA/HCS Status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

WHMIS: This material is considered Hazardous by WHMIS

Emergency overview:

Potential acute health effects

Eyes: Serious Eye Damage/Eye Irritation

GHS Label Elements

Signal word: Warning

Hazard Statement: Causes Eye Irritation

Precautionary Statements

General: Read Label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand

Hazardous Material Information system (U.S.A.)

Health: 1

Flammability: 1

Physical Hazards: 0

National Fire Protection Association (U.S.A.)

Health: 1

Flammability: 1

Physical Hazards: 0

Section 3: Company Composition/Information on Ingredients

Name	CAS number	%
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	60 - 100
Diphenylamine	122-39-4	0.1-1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.



There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Section 4: First Aid Measures

- Eye contact:** If material comes in contact with the eyes, immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention.
- Skin contact:** In case of contact, immediately flush skin with plenty of water for at least 20 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. If irritation continues get medical attention immediately.
- Inhalation:** If person breathes in large amounts of material, move the exposed person to fresh air at once. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as collar, tie, belt or waistband. Get medical attention immediately.
- Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious. Get medical attention immediately.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact: Causes eye irritation
- Inhalation: No known significant effects or critical hazards
- Skin Contact: No known significant effects or critical hazards
- Ingestion: No known significant effects or critical hazards

Over-exposure signs/symptoms

- Eye contact: Adverse symptoms may include the following: pain or irritation, watering, redness
- Inhalation: Adverse symptoms may include the following: respiratory tract irritation, coughing
- Skin Contact: Adverse symptoms may include the following: irritation, redness
- Ingestion: No known significant effects or critical hazards

Indication of immediate medical attention and special treatment needed, if necessary

- Protection: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Section 5: Fire Fighting Measures

Flammable properties: No specific fire or explosion hazard.

Extinguishing media

Suitable extinguishing media: Use water spray to cool fire exposed surfaces and to protect personnel. Foam, dry chemical or water spray (fog) to extinguish fire. Water may cause splatter.

Unsuitable extinguishing media: None known

Specific hazards arising from the chemical: Toxic fumes, gases or vapours may evolve on burning

Protection of firefighters: Fire fighters should wear full turnout gear and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure

Section 6: Accidental Release Measures

Personal precautions: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up

Spills: Contain with dikes or absorbent to prevent migration to sewers/streams. Take up small spill with dry chemical absorbent; large spills may require pump of vacuum prior to absorbent. May require excavation of severely contaminated soil.

Section 7: Handling and Storage

Handling: Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage: Do not store above the following temperature: 113°C (235.4°F). Odorous and toxic fumes may form from the decomposition of this product if stored at excessive temperatures for extended periods of time. Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see section 10). Use appropriate containment to avoid environmental contamination.

Section 8: Exposure Controls/Personal Protection

Ingredient	Exposure limits
Distillates (petroleum), hydrotreated light paraffinic	<p>ACGIH TLV (United States, 3/2012). TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction.</p> <p>NIOSH REL (United States, 6/2009). STEL: 10 mg/m³ 15 minutes. Form: Mist TWA: 5 mg/m³ 10 hours. Form: Mist</p> <p>OSHA PEL (United States, 6/2010). TWA: 5 mg/m³ 8 hours.</p>
Diphenylamine	<p>ACGIH TLV (United States, 3/2012). TWA: 10 mg/m³ 8 hours.</p> <p>NIOSH REL (United States, 6/2009). TWA: 10 mg/m³ 10 hours.</p> <p>OSHA PEL (United States, 6/2010). TWA: 10 ppm 8 hours</p>

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.



Individual Personal protection

- Hygiene measures:** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to workstation location.
- Eyes:** Chemical splash goggles and a face shield, where splash hazard exists
- Skin:** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Long sleeved coveralls, impervious boots are recommended
- Hands:** Nitrile gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Respiratory:** Use a properly fitted, NIOSH-certified air-purifying or air-fed respirator if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9: Physical and Chemical Properties

Physical state:	Liquid
Color:	Red
Odor:	Mild
Flash Point:	Closed cup: >177°C (>350.6°F)
Flammability:	Not available
Lower and upper explosive (flammable) limits:	Not available
pH:	Not available
Boiling point:	Not available
Melting/Freezing point:	Not available
Relative density:	0.85 to 0.86
Evaporation rate:	<1 (Butyl acetate=1)
Viscosity:	Not available
Solubility:	Insoluble in the following materials: cold water and hot water
Auto-ignition Temperature:	>260°C (>500°F)
Vapor Pressure:	<0.13 kPa (<1 mm Hg) (68°F)

Section 10: Chemical Stability & Reactivity Information

- Reactivity:** No specific test data related to reactivity available for this product or its ingredients
- Chemical Stability:** The product is stable.
- Hazardous polymerization:** Under normal conditions of storage and use, hazardous polymerization will not occur.

Incompatible materials: Reactive oxidizing agents.
Hazardous decomposition: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11: Toxicological Information

Acute toxicity

Product	Result	Species	Dose	Exposure
Distillates (petroleum), hydrotreated light paraffinic	LD50 inhalation vapor	Rat	3900 mg/m ³	4 hours
Diphenylamine	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	1120 mg/kg	-

Irritation/Corrosion

Skin: There is no data available
Eyes: There is no data available
Respiratory: There is no data available

Sensitization

Skin: There is no data available
Respiratory: There is no data available
Mutagenicity: There is no data available
Carcinogenicity: There is no data available
Reproductive Toxicity: There is no data available
Teratogenicity: There is no data available

Specific Target Organ Toxicity (single exposure): There is no data available

Specific Target Organ Toxicity (repeated exposure):

Name	Category	Route of exposure	Target Organs
Diphenylamine	Category 2	Not determined	Not determined

Aspiration Hazard: There is no data available

Information on the likely routes of exposure: Dermal contact, eye contact, inhalation, ingestion.

Section 12: Ecological Information

Product/Ingredient name	Result	Species	Exposure
Diphenylamine	Acute EC50 2.17 mg/L Fresh water	Algae – Pseudokirchneriella subcapitata – Exponential growth base	72 hours
	Acute EC50 0.31 to 0.36 mg/L Fresh water	Daphnia – Daphnia magna	48 hours
	Acute EC50 3790 to 4140 ug/L Fresh water	Fish – Pimephales promelas	96 hours
	Chronic NOEC 0.37 mg/L Fresh water	Algae – Pseudokirchneriella subcapitata – Exponential growth phase	72 hours

Persistence and degradability: There is no data available

Bioaccumulative potential

Product/Ingredient name	LogP _{ow}	BCF	Potential
Diphenylamine	3.5	151.356124843	low



Mobility in soil

Soil/water partition coefficient (Koc): There is no data available
Other adverse effects: No known significant effects or critical hazards

Section 13: Disposal Considerations

Disposal Instructions: Disposal of this product, solutions and any byproducts should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14: Transportation

DOT Shipping Name: Not regulated as a hazardous waste.
DOT Identification number: Not applicable
DOT Hazard Class(es): Not applicable
PG: Not applicable
DOT Emer. Response Guide No: Not applicable

Section 15: Regulatory Information

U.S Federal regulations: TSCA 8(a) Pair: Diphenylamine
 TSCA 8(a) CDR Exempt/Partial exemption: Not Determined
 United States Inventory (TSCA 8b): All components are listed or exempted

Clean Air Act Section 602 Class I Substances: Not listed
Clean Air Act Section 602 Class II Substances: Not listed
DEA List I Chemicals (Precursor Chemicals): Not listed
DEA List I Chemicals (Essential Chemicals): Not listed
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)

SARA 302/304

Composition/information on ingredients

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
Sulfur Dioxide	0-0.1	Yes	-	-	-	-

SARA 304 RQ: Not Applicable
SARA 311/312
Classification: Immediate (Acute) health hazard





Composition/information on ingredients

Name	%	Fire Hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Distillates (petroleum), hydrotreated light paraffinic	60-100	No	No	No	Yes	No
Diphenylamine	0.1-1	No	No	No	Yes	Yes

SARA 313: This product (does/not) contain toxic chemicals subject to the reporting requirements of SARA Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and 40CFR 372

16. Other Information:

Revision Date: January 21, 2015

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