



This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

1	Product and Company Identification
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The Lubrizol Corporation
29400 Lakeland Boulevard
Wickliffe, Ohio 44092
Tel: (440) 943-4200

Product Trade Name	ALOX® 606-55HF
CAS Number	Not applicable for mixtures.
Synonyms	None.
Generic/Chemical Name	Confidential.
Product Use	Metal Protection Rust preventive additive
Prepared By	Product Safety and Compliance Department (440) 943-4200
Preparation/Revision Date	16 October 2009
Transportation Emergency Phone No.	FOR TRANSPORT EMERGENCY call CHEMTREC: (+1) 703-527-3887 (outside the U.S.), 1-800-424-9300 (in the U.S.)
MSDS No.	39118437-3013230-212920-102103
WHMIS Hazard Class	B-3 D-2B
HMIRC Registry Number	Not Registered
HMIRC Exemption	Not Registered
HMIRC Filing/Grant Date	Not applicable.

2	Hazards Identification
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Principal Hazards	Warning. <ul style="list-style-type: none"> • Harmful if inhaled. • Causes eye irritation. • Causes skin irritation. • Causes respiratory tract irritation. • Harmful if absorbed through skin. • Combustible liquid. • May cause chronic health effects.
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See Section 11 for complete health hazard information.

3	Composition/Information on Ingredients
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Hazardous Ingredients

Comp	CAS No.	Percentage (by wt.)	Exposure Guidelines						Carcinogen
			OSHA		ACGIH		Other		
			TWA	STEL	TWA	STEL	TWA	STEL	
Petroleum naphtha	64742-88-7	From 40 to 49.9 percent	N/E	N/E	N/E	N/E	100 ppm (u)	200 ppm (u)	N/E
n-Nonane	111-84-2	From 1 to 4.9 percent	N/E	N/E	200 ppm	N/E	N/E	N/E	N/E
1,2,4-Trimethylbenzene	95-63-6	2.3%	N/E	N/E	N/E	N/E	N/E	N/E	N/E
n-Octane	111-65-9	From 0.5 to 1.5 percent	500 ppm	N/E	300 ppm	N/E	N/E	N/E	N/E

- (s) - Skin exposure
- (p) - Proposed limit
- (c) - Ceiling exposure
- (l) - Recommended exposure limit
- (u) - Supplier recommended exposure limit
- (N/E) - None established
- Confidential - See section 1 for HMIRC exemption status

4	First Aid Measures
Ingestion	DO NOT INDUCE VOMITING. Aspiration of material due to vomiting can cause chemical pneumonitis which can be fatal. Get immediate medical attention. If vomiting occurs naturally, the casualty should lean forward to reduce the risk of aspiration. Do NOT induce vomiting. Immediately call a poison center or doctor.
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 attention.
Skin	Wash with soap and water. Immediately remove contaminated clothing. If skin irritation occurs, get medical attention. Launder contaminated clothing before reuse.
Inhalation	Remove exposed person to fresh air. If breathing is labored, administer oxygen. If breathing has stopped, apply artificial respiration. Call a poison center or doctor if you feel unwell.
Additional Information	Note to physician: Treat symptomatically.
5	Fire Fighting Measures
Flash Point	69 °C, 156.2 °F ABEL (Typical)
Extinguishing Media	CO ₂ , dry chemical, or foam. Water can be used to cool and protect exposed material.
Firefighting Procedures	Recommend wearing self-contained breathing apparatus. Water may cause splattering.
Unusual Fire & Explosion Hazards	Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back. Container may rupture on heating.
6	Accidental Release Measures
Spill Procedures	Evacuate all non-essential personnel. Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Remove sources of ignition. Ventilate spill area. Prevent entry into sewers and waterways, dispose of in accordance with all federal, state and local environmental regulation. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Check under Transportation and Labeling (DOT/CERCLA) and Other Regulatory Information Section (SARA) for hazardous substances to determine regulatory reporting requirements for spills.
7	Handling and Storage
Pumping Temperature	Not available.
Maximum Handling Temperature	35 °C, 95 °F
Handling Procedures	Keep away from potential sources of ignition. Keep containers closed when not in use. Do not discharge into drains or the environment, dispose to an authorized waste collection point. Use appropriate containment to avoid environmental contamination. Avoid breathing dust, fume, gas, mist, vapors or spray. Wash thoroughly after handling. Empty containers retain material residue. Do not cut, weld, braze, solder, drill, grind or expose containers to heat, flame, spark or other sources of ignition.
Maximum Storage Temperature	Ambient
Storage Procedures	Do not store near potential sources of ignition. Store in well ventilated place. Take precautions to avoid release to the environment.
Loading Temperature	Not available.
8	Exposure Controls/Personal Protection
Other Exposure Limits	Contains mineral oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH STEL of 10 mg per cubic meter.
Engineering Controls	Mechanical exhaust required. Additional ventilation or exhaust may be required to maintain air concentrations below recommended exposure limits.
Gloves Procedures	Use nitrile or neoprene gloves.
Eye Protection	Safety glasses. If potential for splash or mist exists, wear chemical goggles or faceshield.
Respiratory Protection	Under normal use conditions, respirator is not usually required. Use disposable dust/mist mask if the recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.
Clothing Recommendation	Long sleeve shirt is recommended. Wear either a chemical protective suit or apron when potential for contact with material exists. Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction. Launder contaminated clothing before reuse.
9	Physical and Chemical Properties
Flash Point	69 °C, 156.2 °F ABEL (Typical)
Upper Flammable Limit	Not available.
Lower Flammable Limit	Not available.
Autoignition Point	Not available.
Explosion Data	Material does not have explosive properties.
Vapour Pressure	Not available.

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pH	Not available.
Specific Gravity	0.88 (15.6 °C)
Bulk Density	Not available.
Water Solubility	Insoluble.
Percent Solid	Not available.
Percent Volatile	Not available.
Volatile Organic Compound	Not available.
Vapour Density	Not available.
Evaporation Rate	Not available.
Odor	Hydrocarbon
Appearance	Brown Liquid.
Viscosity	Not available.
Odor Threshold	Not available.
Boiling Point	150 °C, 302 °F(Initial)
Pour Point Temperature	Not available.
Melting / Freezing Point	Not available.

The above data are typical values and do not constitute a specification.

10	Stability and Reactivity
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Stability	Material is normally stable at moderately elevated temperatures and pressures.
Decomposition Temperature	Not available.
Incompatibility	Strong oxidizing agents.
Polymerization	Will not occur.
Thermal Decomposition	Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion.

11	Toxicological Information
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-- ACUTE EXPOSURE --

Oral Toxicity	The LD50 in rats is > 5000 mg/Kg. Based on data from components or similar materials. Swallowing material may cause irritation of the gastrointestinal lining, nausea, vomiting, diarrhea, and abdominal pain. Ingestion may cause CNS depression.
Eye Irritation	Moderate to strong eye irritant. Based on data from similar materials.
Skin Irritation	Skin irritant. Based on data from similar materials. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin.
Dermal Toxicity	The LD50 in rabbits is > 2000 mg/Kg. Based on data from components or similar materials. Prolonged or widespread contact with this material could result in the absorption of potentially harmful amounts. May be harmful through skin absorption.
Inhalation Toxicity	The LC50 (4 hr.) in rats for dust or mist of this material is > 50 mg/l. Based on data from components or similar materials. High concentrations may cause headaches, dizziness, nausea, behavioral changes, weakness, drowsiness and stupor.
Respiratory Irritation	Nose, throat and lung irritant. Based on data from similar materials. Exposure to a high concentration of vapor or mist may be irritating. Breathing of vapor or mist may aggravate asthma and inflammatory or fibrotic pulmonary disease.
Dermal Sensitization	No data available to indicate product or components may be a skin sensitizer.
Inhalation Sensitization	No data available to indicate product or components may be respiratory sensitizers.

-- CHRONIC EXPOSURE --

Chronic Toxicity	Repeated overexposure to petroleum naphtha can cause nervous system damage.
Carcinogenicity	No data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard.
Reproductive Toxicity	No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.
Teratogenicity	No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.
Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

-- ADDITIONAL INFORMATION --

Other	No other health hazards known.
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12	Ecological Information
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-- ENVIRONMENTAL TOXICITY --

Freshwater Fish Toxicity	The acute LC50 is 1 - 10 mg/L based on component data.
Freshwater Invertebrates Toxicity	Not available.
Algal Inhibition	Not available.
Saltwater Fish Toxicity	Not available.

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Saltwater Invertebrates Toxicity	Not available.
Bacteria Toxicity	Not available.
Miscellaneous Toxicity	Not available.

-- ENVIRONMENTAL FATE --

Biodegradation	At least 25% of the components in this product show moderate biodegradation based on OECD 302-type test data.
Bioaccumulation	25% or greater of the components potentially bioconcentrate, based on measured octanol/water partition coefficients.
Soil Mobility	Not available.

13	Disposal Considerations
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Waste Disposal	This material, if discarded, is not a hazardous waste under RCRA Regulation 40 CFR 261. Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.
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14	Transport Information
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ICAO/IATA II	UN3082 Environmentally hazardous substance, liquid, n.o.s. (Petroleum naphtha), 9, III, Marine Pollutant (Petroleum naphtha)
IMDG	UN3082 Environmentally hazardous substance, liquid, n.o.s. (Petroleum naphtha), 9, III, Marine Pollutant (Petroleum naphtha)
IMDG EMS Fire	F-A
IMDG EMS Spill	S-F
IMDG MFAG	NONE
MARPOL Annex II	Not determined.
USCG Compatibility	Not available.
Canada	UN3082 Environmentally hazardous substance, liquid, n.o.s. (Petroleum naphtha), 9, III, Marine Pollutant (Petroleum naphtha)
U.S. DOT Bulk	NA1993 Combustible liquid, n.o.s. (n-Nonane, Petroleum naphtha), III, Marine Pollutant (Petroleum naphtha)
DOT NAERG	128
U.S. DOT (Intermediate)	NA1993 Combustible liquid, n.o.s. (n-Nonane, Petroleum naphtha), III, Marine Pollutant (Petroleum naphtha)
U.S. DOT Intermediate NAERG	128
U.S. DOT Non-Bulk	Not regulated
U.S. DOT Non-Bulk NAERG	Not applicable.
Bulk Quantity	85000 KG, 187391 lbs.
Intermediate Quantity	11000 KG, 24251 lbs.
Non-Bulk Quantity	400 KG, 882 lbs.

Review classification requirements before shipping materials at elevated temperatures

15	Regulatory Information
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-- Global Chemical Inventories --

USA	All components of this material are on the US TSCA Inventory or are exempt.
EU	All components are in compliance with the EC Seventh amendment Directive 92/32/EEC.
Japan	All components are in compliance with the Chemical Substances Control Law of Japan.
Australia	All components are in compliance with chemical notification requirements in Australia.
New Zealand	All components are in compliance with chemical notification requirements in New Zealand.
Canada	All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.
Switzerland	All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.
Korea	All components are in compliance in Korea.
Philippines	All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).
China	All components of this product are listed on the Inventory of Existing Chemical Substances in China.

-- Product Registrations --

Finnish Registration Number	Not Registered
Swedish Registration Number	Not Registered
Norwegian Registration Number	Not Registered
Danish Registration Number	Not Registered
Swiss Registration Number	Not Registered

-- Other / International --

Other TSCA Reg.	Section 4a (Nonane). May be subject to export notification under TSCA Section 12(b).
SARA Ext. Haz. Subst.	This product does not contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substances list.
SARA Section 313	2.3% 1,2,4-Trimethylbenzene, CAS no. 95-63-6
CERCLA Hazardous Substances	None known.
Cal. Prop. 65	This product does not intentionally contain any chemicals known by the State of California to cause cancer and/or birth defects. Moreover, we do not routinely analyze its products for impurities which may be such chemicals.
Miscellaneous Regulatory Information	Not available.

16	Other Information
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US NFPA Codes

Health	Fire	Reactivity	Special
2	2	0	N/E

HMIS Codes

Health	Fire	Reactivity
2*	2	0

Precautionary Labels

- Warning.
- Harmful if inhaled.
 - Causes eye irritation.
 - Causes skin irritation.
 - Causes respiratory tract irritation.
 - Harmful if absorbed through skin.
 - Combustible liquid.
 - May cause chronic health effects.

Revision Indicators

Section: 1 Product type.	Changed: 29 March 2009
Section: 2 Principal hazards.	Changed: 28 June 2009
Section: 4 Inhalation first aid.	Changed: 29 March 2009
Section: 4 Oral first aid.	Changed: 29 March 2009
Section: 4 Skin first aid.	Changed: 28 June 2009
Section: 8 Respiratory protection.	Changed: 29 March 2009
Section: 9 Odor threshold.	Changed: 29 March 2009
Section: 9 Percent volatile.	Changed: 29 March 2009
Section: 9 Viscosity.	Changed: 29 March 2009
Section: 11 Carcinogenicity.	Changed: 10 July 2009
Section: 11 Inhalation toxicity.	Changed: 16 October 2009
Section: 11 Skin irritation.	Changed: 28 June 2009
Section: 13 Waste disposal.	Changed: 29 March 2009
Section: 14 U.S. DOT Bulk shipping description.	Changed: 2 July 2009
Section: 14 U.S. DOT Intermediate shipping description.	Changed: 16 October 2009
Section: 14 ICAO shipping description.	Changed: 2 July 2009
Section: 14 TDG shipping description.	Changed: 2 July 2009
Section: 15 New Zealand	Changed: 29 March 2009
Section: 16 Principal hazards.	Changed: 28 June 2009

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