

Danfoss

Material Safety Data Sheet

1	Substance/Product Identification
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Product Trade Name 160SZ
CAS Number Confidential.
Synonyms None.
Preparation/Revision Date 12 June 2000
Generic Chemical Name Carboxylic ester
Product Type Not applicable.
MSDS No. 6882548-8166536-3372054

2	Composition/Information on Ingredients
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Hazardous Ingredients

Comp	Percentage (by wt.)	Symbol(s)	Risk Phrase(s)	CAS No.
Carboxylic ester	From 90 to 100 percent	Xi	R38	Confidential.

3	Hazards Identification
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Principal Hazards CAUTION.

- MAY CAUSE EYE IRRITATION.
- MAY CAUSE SKIN IRRITATION.

Lubrizol operates a World-wide system for hazard identification. Some principal hazards shown here may apply to non-EU countries and may not result in classification and labelling in the EU.

4	First Aid Measures
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Ingestion DO NOT INDUCE VOMITING. If conscious, give 2 glasses of water. Get immediate medical attention.
Eyes Flush with water at least 15 minutes. Get medical attention if eye irritation develops or persists.
Skin Wash with soap and water. Remove contaminated clothing. Get medical attention if irritation develops. Launder contaminated clothing before reuse.

Inhalation Remove exposed person to fresh air if adverse effects are observed.
Additional Information Note to physician: Treat symptomatically.

5	Fire Fighting Measures
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Flash Point > 232 Deg C, 449.6 Deg F COC (Minimum)
Extinguishing Media CO2, 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. Material will float on water.
Unusual Fire & Explosion Hazards Toxic fumes, gases or vapours may evolve on burning.

6	Accidental Release Measures
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Spill Procedures Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Ventilate area if spilled in confined space or other poorly ventilated areas. Prevent entry into sewers and waterways. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Check under Transportation and Labelling (DOT/CERCLA) and Other Regulatory Information Section (SARA) for hazardous substances to determine regulatory reporting requirements for spills.

7	Handling and Storage
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Loading Temperature Not Determined.
Maximum Handling Temperature Not Determined.
Handling Procedures Keep containers closed when not in use. Wash thoroughly after handling. Empty container contains product residue which may exhibit hazards of product.
Maximum Storage Temperature Not Determined.
Storage Procedures No special storage precautions required.

8	Exposure Controls/Personal Protection
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Exposure Limits
Belgium Not applicable.
EU Not applicable.
Ireland Not applicable.
UK Not applicable.
Other Exposure Limits Contains synthetic basestock. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH STEL of 10 mg per cubic meter for mineral oil mists.
Ventilation Procedures If use generates a mist or vapor, local exhaust ventilation is recommended.
Hand Protection Neoprene.
Eye Protection Chemical goggles or faceshield.
Respiratory Protection Use respirator with an organic vapor and dust/mist cartridge 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.

9	Physical and Chemical Properties
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Flash Point	> 232 Deg C, 449.6 Deg F COC (Minimum)
Upper Flammable Limit	Not Determined.
Lower Flammable Limit	Not Determined.
Autoignition Point	Not Determined.
Explosion Data	Material does not have explosive properties.
Vapour Pressure	Not Determined.
pH	Not Determined.
Specific Gravity	0.99 (15.6 Deg C)
Water Solubility	Insoluble.
Percent Volatile	Unknown.
Percent VOC	Not Determined.
Vapour Density	Not Determined.
Evaporation Rate	Not Determined.
Odour	Characteristic
Appearance	Clear liquid.
Viscosity	Unknown.
Odour Threshold	Unknown.
Boiling Point	Not Determined.
Pour Point Temperature	Not Determined.
Freezing Point	Not Determined.
Molecular Weight	Not Determined.
Octanol/Water Partition Coefficient	Not Determined.

10	Stability and Reactivity
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Stability	Material is normally stable at moderately elevated temperatures and pressures.
Decomposition Temperature	Not Determined.
Incompatibility	Strong acids. Strong bases. 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--

Eye Irritation	May cause eye irritation. Does not meet Canadian D2B or EU R36 criteria. Based on data from similar materials.
Skin Irritation	May cause skin irritation. Based on data from similar materials. Prolonged or repeated contact may cause dermatitis.
Respiratory Irritation	If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract similar to that observed with mineral oil. Based on data from similar materials. Under good industrial hygiene practices where all exposure limits are observed, respiratory irritation should not be a problem.
Dermal Toxicity	The LD50 in rabbits is > 2000 mg/Kg. Based on other data or data on similar materials.
Inhalation Toxicity	No data available to indicate product or components may be a toxic inhalation hazard.
Oral Toxicity	The LD50 in rats is > 5000 mg/Kg. Based on data from similar materials.
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	No data available to indicate product or components present at greater than 1% are chronic health hazards.
Carcinogenicity	No data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard.
Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
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.
Other	No other health hazards known.

12	Ecological Information
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-- ENVIRONMENTAL TOXICITY--

Freshwater Fish Toxicity	The acute LC50 for freshwater fish is > 1000 ppm.
Freshwater Invertebrates Toxicity	The acute EC50 for freshwater invertebrates is > 1000 ppm.
Algae Toxicity	The acute EC50 for algae is > 1000 ppm.
Saltwater Fish Toxicity	Not Determined.
Saltwater Invertebrates Toxicity	Not Determined.
Bacteria Toxicity	The acute EC50 for bacteria is > 1000 ppm.
Miscellaneous Toxicity	Not Determined.

-- ENVIRONMENTAL FATE--

Biodegradation	Laboratory studies indicate rapid biodegradation with non-acclimated sludge.
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Bioaccumulation	Not Determined.
Soil Mobility	Not Determined.
WGK	WGK = 1 according to the Water Hazardous Directive, VwVwS, dated May 17, 1999.

13	Disposal Consideration
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Waste Disposal	This material, if discarded, should be considered a European hazardous waste in accordance with European Law. H4.
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14	Transport Information
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ICAO/IATA	Not regulated.
IMDG (Ambient)	Not regulated.
IMDG (Elevated)	Not determined.
IMDG EMS	Not applicable.
IMDG MFAG	Not applicable.
IMO Marine Bulk	Not determined.
USCG Compatibility	Not determined.
ADR/RID (Ambient)	Not regulated
ADR/RID (Elevated)	Not Determined.

15	Regulatory Information
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Symbol(s)



Indication of Danger	Irritant
Precautionary Labels	R38 -- Irritating to skin. S37 -- Wear suitable gloves.
Switzerland	All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.
Switzerland Bag T Registration Number	Not Registered
U.S. TSCA	All components of this material are on the US TSCA Inventory.
U.S. Fuel Registration	Not applicable.
U.S. Dept of Agriculture	This product has not been filed with the USDA to support H2 approvals.
U.S. Tariff Heading Number	Not Determined.
Schedule B Number	Not Determined.
FDA Approval	Not applicable.
EU	All components are in compliance with the EC Seventh amendment Directive 92 /32/EEC.
Japan METI	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.
Canada	All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.
Canadian Registration Number	Not Registered
Korea	All components are in compliance in Korea.
Korean Registration Number	Not Registered
Philippines	All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).
Danish Registration Number	Not Registered
Finnish Registration Number	Not Registered
Sweden Registration Number	Not Registered
Norway Registration Number	Not Registered
China	This product may require notification in China.
China Registration Number	Not Registered
New Zealand Registration Number	Not Registered
Malta Registration Number	Not Registered
Ukraine Registration Number	Not Registered

16	Other Information
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HMIS Codes

Health	Fire	Reactivity
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Revision Indicators

Section	Changed
2 EEC HAZARDOUS INGREDIENTS	12 June 2000
7 MAXIMUM STORAGE TEMPERATURE	12 June 2000
11 DERMAL SENSITIZATION	12 June 2000
11 DERMAL TOXICITY	12 June 2000
11 INHALATION TOXICITY	12 June 2000
11 ORAL TOXICITY	12 June 2000

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