



GLIDEX® SERIES

1101 3rd Street Southeast
Canton, OH 44707 USA
330.456.3121
800.321.0699
www.midwestind.com

SAFETY DATA SHEET

SECTION I -- IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

TRADE NAME: GLIDEX® Series (Glidex, Glidex HV, Glidex MC)
MANUFACTURER: Midwest Industrial Supply, Inc
1101 3rd Street SE
Canton, OH 44707
EMERGENCY PHONE NUMBER: 330-456-3121
RECOMMENDED USE: Rail Lubrication
CHEMICAL NAME: Isoalkane and binder system
SYNONYMS: Rail Lubricant; Switch Treator

SECTION II -- HAZARDS IDENTIFICATION

CLASSIFICATION: Eye Irritant, 2B
SIGNAL WORD: Warning
HAZARD STATEMENT(S): Causes eye irritation

Pictograms

PRECAUTIONARY STATEMENT(S): Flush eyes for several minutes.
Wash hands and exposed areas thoroughly.
Contact physician if irritation persists.
OTHER HAZARDS: None

SECTION III -- COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS #	WT %
Severly hydrotreated, high viscosity, synthetic iso-alkane	72623-86-0	60-80%
Polyolefin	9003-27-4	20-40%
Non-chlorinated metal conditioner	non hazardous	< 2%

SECTION IV -- FIRST AID MEASURES

INHALATION: Move subject to fresh air. If victim is not breathing, perform artificial respiration. Administer oxygen if available. Keep victim warm and at rest. Seek medical attention as soon as possible.
SKIN: Flush with large amount of water or wash with soap and water. Seek medical attention as soon
EYES: Flush eyes with flowing water at least 15 minutes. Get medical attention. Do



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INGESTION: not use any eye ointment. Remove contact lenses.
GLIDEX® has a laxative effect and will be eliminated quickly. Seek medical attention. NEVER GIVE FLUIDS OR INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR HAVING CONVULSIONS.

RECOMMENDATION TO FIREFIGHTERS ON SPECIAL PROTECTIVE EQUIPMENT OR PRECAUTIONS:

Respiratory and eye protection are required for firefighting personnel. Self contained breathing apparatus (SCBA) as required for conditions.

SECTION V -- FIREFIGHTING MEASURES

EXTINGUISHING MEDIUM:

As this material is virtually not-flammable, use proper equipment to fight surrounding fire.

SPECIAL FIREFIGHTING PROCEDURES:

If a tank, railcar or tank truck is involved in a fire isolate for 0.5 miles in all directions. Shut off fuel to fire if it is possible to do so without hazard. If this is impossible, withdraw from the area and let the fire burn itself out under controlled conditions. Withdraw immediately in case of rising sound from venting safety device or any discoloration of the tank due to fire. Cool containing vessels with water spray in order to prevent pressure build-up, autoignition or explosion.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None

SPECIAL HAZARDS:

Do not cut, weld, heat, drill, or pressureize empty

SECTION VI -- ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Safety glasses and gloves

SPILL AND LEAK PROCEDURES:

ELIMINATE ALL IGNITION SOURCES. Stop leak without risk and contain spill. Absorb with inert absorbent materials such as clay or sand. Place absorbent in closed metal containers for later disposal or burn in appropriate facility. Keep spills out of sewers and open bodies of water.

SECTION VII -- HANDLING AND STORAGE

STORAGE:

Keep in cool, dry, ventilated storage area and in closed containers. Keep away from sources of ignition and oxidizing materials.

HANDLING:

KEEP AWAY FROM SOURCES OF IGNITION. Do not reuse empty containers. Practice good hygiene. Wash hands before eating. Launder clothes before reuse. Discard saturated leather goods.



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SECTION VIII -- EXPOSURE CONTROL/PERSONAL PROTECTION

OSHA PEL (8 hour TWA):	5 mg/m ³ for synthetic product mists.
VENTILATION:	Under normal handling conditions special ventilation is not necessary. If operation generates mist or fumes, use ventilation of keep exposure to airborne contaminants below exposure limits.
RESPIRATORY PROTECTION:	None required if good ventilation is maintained. If mist is generated by heating or spraying, use a NIOSH approved organic respirator with a mist filter.
EYE PROTECTION:	Chemical splash, goggles recommended.
PROTECTIVE CLOTHING:	Clothing to minimize skin contact, long sleeves, boots or shoes. For casual contact PVC gloves are suitable, for prolonged contact use neoprene or nitrile gloves.

SECTION IX -- PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Odor:	None
Vapor Density:	N/D
Solubility in Water:	Insoluble
Relative Density:	0.83-0.86
Melting/Freezing Point:	N/D
VOC Content:	N/D
Viscosity:	90-150 cSt @ 22°C
Flashpoint:	>170°C (338°F)
Flammable Limits LEL:	N/D
Flammable Limits UEL:	N/D
Odor Threshold:	N/D
Initial Boiling Point/Range:	>316°C (601°F)
Vapor Pressure:	Negligible at ambient temperature
Evaporation Rate:	N/D
pH:	N/A, not an aqueous solution or emulsion
Octanol/Water Coefficient:	N/D
Decomposition Temperature:	N/D
Flammability (solid/gas):	N/A
Auto Ignition Temperature:	351°C (664°F)



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SECTION X -- STABILITY AND REACTIVITY

REACTIVITY:	None
CHEMICAL STABILITY:	Stable
CHEMICAL INCOMPATIBILITY:	Can react with strong organic oxidizing materials
HAZARDOUS DECOMPOSITION PRODUCTS:	Thermal decomposition in the presence of air may yield carbon monoxide and/or carbon dioxide, smoke, hydrocarbons and irritating fumes.
HAZARDOUS POLYMERIZATION:	Does not occur under normal industrial conditions.
CONDITIONS TO AVOID:	Excessive heat and flame

SECTION XI -- TOXICOLOGICAL INFORMATION

EFFECTS OF OVEREXPOSURE

INHALATION:	Inhalation is highly unlikely, however, prolonged or repeated inhalation of fumes or mists may cause irritation to the respiratory tract. Product deposits in lungs may lead to fibrosis and reduced pulmonary function.
SKIN:	It is not a skin irritant, however, prolonged or repeated contact may cause skin irritation, dermatitis, or oil acne.
EYES:	Prolonged or repeated contact may be irritating to eyes. Will not cause permanent damage.
INGESTION:	Relatively non-toxic to digestive tract.
CARCINOGENICITY:	Based on studies to date GLIDEX® is not known to be carcinogenic to humans. ACGIH (mists) - Available human studies, exposure to product mist alone has not demonstrated to cause human effects at levels below 5 mg/m3. IARC - IARC group 3; cannot be classified as to carcinogenicity to humans. NTP - No studies were found. IRIS - No studies were found. OSHA - OSHA PEL (8 hour TWA) = 5 mg/m3 for synthetic product mists.

GERM CELL MUTAGENICITY:	N/D
REPRODUCTIVE TOXIN:	Based on data to date, it does not pose a reproductive risk.

SECTION XII -- ECOLOGICAL INFORMATION

GLIDEX Aquatic Toxicity Test Results

*Methods for Measuring the Acute Toxicity of Effluents and Receiving Water to Freshwater and



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Marine Organisms, EPA/600/4-90/027F.

*Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Water to Freshwater Organisms, EPA/600/4-91/002.

*Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Water to Marine and Estuarine Organisms, EPA/600/4-91/003.

	Ceriodaphnia dubia	Fathead minnow	Americamysis bahia	Rainbow Trout
Acute/Survival (mg/L)				
LC50	>1000	>1000	>1000	>1000
NOEC	1000	1000	1000	1000
LOEC	>1000	>1000	>1000	>1000
Chronic/Survival (mg/L)				
LC50	>1000	>1000	>1000	>1000
NOEC	1000	1000	1000	1000
LOEC	>1000	>1000	>1000	>1000
Chronic/Growth/Reproduction (mg/L)				
LC50	>1000	>1000	>1000	>1000
NOEC	1000	1000	1000	1000
LOEC	>1000	>1000	>1000	>1000

See attached test results:

1. ABC Laboratories, Inc. Americamysis bahia, Fathead minnow, Ceriodaphnia dubia.
2. ABC Laboratories, Inc. Rainbow trout

LC50 - Lethal Concentration, 50%

NOEC - No Observable Effects Concentration

LOEC - Lowest Observable Effects Concentration

The LC50 level is the lethal concentration of the chemical under test that kills 50% of the test organisms in the specified amount of time. Accordint to the EPA-540-9-85-006, suggested toxicity criteria for materials are listed in the table below.

Comparison of the EPA guidelines to the LC50 levels of all species show that GLIDEX® is practically non-toxic to all

BIODEGRADABILITY Testing per OECD 301B shows 100% biodegradation and is classified as Readily Biodegradable.



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SECTION XIII -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Consult your local authorities for regulations. Preferred waste management: recycle or reuse, incinerate with energy recovery, disposal in a licensed facility. Disposal facility should be compliant with state, local and federal government regulations.

SECTION XIV -- TRANSPORTATION INFORMATION

DOT HAZARDOUS MATERIAL DESCRIPTION: Non-regulated as dangerous goods
PROPER SHIPPING NAME: GLIDEX®
UN NUMBER: Non-regulated as dangerous goods
HAZARD CLASS/PACKAGING GROUP: Non-regulated
LABELS REQUIRED: None

SECTION XV -- REGULATORY INFORMATION

NFPA RATING:	Health:	1	HMIS RATING:	Health:	1
	Flammability:	1		Flammability:	1
	Instability:	0		Physical Hazard:	0
				PPE:	B

EPA SARA Title III hazard class: None
OSHA HCS hazard class: eye irritant, 2B
EPA SARA Title III Section 313 (40CFR372)
Toxic Chemicals present in quantities greater than the "de minimus" level are: None
TSCA: Components of this product are listed on TSCA inventory
Canadian WHIMIS: This product is not a "controlled product" under the Canadian Workplace Hazardous Material Information
Canadian DSL: All components of this product are listed on Domestic Substance List.
California Proposition 65: Does not contain any Prop 65 chemicals.

SECTION XVI -- OTHER INFORMATION

ABBREVIATIONS AND SYMBOLS:

N.D. Not Determined
< Less Than

N.A. Not Applicable
> More Than

N.T. Not Tested