



PRODUCT NAME: GLYCERINE USP 99.7% KOSHER

CHEMICAL PRODUCT AND DISTRIBUTOR IDENTIFICATION

TRADE NAME: GLYCERINE USP 99.7% KOSHER
 CAS#: 56-81-5
 DATE: February 27, 2013

DISTRIBUTOR: McKinley Resources
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COMPOSITION / INFORMATION ON INGREDIENTS

COMPOSITION	CHEMICAL FORMULA	CAS#	EC#	EC SYMBOL	EC R-PHRASES
Glycerol	$C_3H_8O_3/C_3H_5(OH)_2$	56-81-5	200-289-5	Not Applicable	Not Applicable

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

CLASSIFICATIONS:

REGULATION (EC) NO. 1272/2008: Substance is not classified according to the CLP regulation
 DIRECTIVE 67/548/EEC: Not applicable
 DIRECTIVE 1999/45/EC: Not applicable

LABEL ELEMENTS:

REGULATION (EC) NO. 1272/2008: Void
 HAZARD PICTOGRAMS: Void
 SIGNAL WORD: Void
 HAZARD STATEMENTS: Void

OTHER HAZARDS:

PBT ASSESSMENT RESULTS: Not applicable
 vPvB ASSESSMENT RESULTS: Not applicable

FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: CO₂, powder or water spray
 Larger fires: Use water spray or alcohol resistant foam

SPECIAL HAZARDS: No further information available
 FIRE-FIGHTER ADVICE: Avoid breathing dust, fumes, gas, mist vapors and/or sprays.
 PROTECTIVE EQUIPMENT: Wear self-contained respiratory protective device
 In case of inadequate ventilation, wear respiratory protection.



FIRST AID MEASURES

GENERAL:	No special measures required.	
SKIN CONTACT:	Immediately wash with soap and water. Rinse thoroughly.	
EYE CONTACT:	Rinsed opened eye for several minutes under running water. If symptoms persist, consult a doctor.	
INHALATION:	Supply fresh air. Consult doctor in case of complaints.	
INGESTION:	Rinse out mouth Drink plenty of water Do not induce vomiting Call for medical help immediately	
ACUTE/DELAYED SYMPTOMS/EFFECTS:		No further relevant information available
IMMEDIATE ATTENTION/SPECIAL TREATMENT INDICATIONS:		No further relevant information available

ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	Wear protective clothing Use respiratory protective device against the effects of fumes/ dust/ aerosol
ENVIRONMENTAL PRECAUTIONS:	Do not allow product to reach sewage system or any water course.
CLEAN-UP METHOD:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, Saw dust) Dispose collected material according to regulations

HANDLING AND STORAGE

HANDLING PRECAUTIONS:	Keep away from heat and direct sunlight
FIRE/EXPLOSION PROTECTION:	Keep respiratory protective device available Keep ignition sources away Do not smoke
STORAGE:	Store only in the original receptacle Store away from oxidizing agents Protect from heat and direct sunlight Keep container tightly sealed
SPECIFIC END-USES:	No further relevant information available



EXPOSURE CONTROL AND PERSONAL PROTECTION

CONTROL PARAMETERS: Ingredients with limit values require monitoring in the workplace: Not Required

EXPOSURE CONTROLS:

PERSONAL PROTECTIVE EQUIPMENT:

GENERAL:	Usual precautionary measures are to be adhered to when handling chemicals
EYES	Face protection
SKIIN:	Glove material has to be impermeable and resistant to the product / the substance / the preparation
RESPIRATORY:	Not necessary if room is well-ventilated
HANDS/GLOVES:	Material has to be of good quality, Impermeable and resistant to the product, substance, preparation Breakthrough time to be found out by the manufacturer and has to be observed

PHYSICAL & CHEMICAL PROPERTIES

FORM:	viscous
COLOR:	Colorless
ODOR:	Characteristic
ODOR THRESHOLD:	Not determined
pH VALUE:	Not determined
MELTING POINT/RANGE, °C:	18°C
BOILING POINT @ 760 mm of Hg:	554°F, 290°C (decomposition)
CLOUD POINT:	No data
FLASH POINT:	177°C (Cleveland Open Cup)
FLAMMABILITY (SOLID/GASEOUS):	Not applicable
IGNITION TEMPERATURE, °C:	400°C
DECOMPOSITION TEMPERATURE, °C:	Not determined
SELF-IGNITING:	Not determined
DANGER OF EXPLOSION:	Product does not present an explosion hazard
EXPLOSION LIMITS:	
LOWER:	Not determined
UPPER:	Not determined
VAPOR PRESSURE @ 20°C:	< 0.01 hPa
DENSITY @ 20°C (g/cm ³):	1.26 g/cm ³
RELATIVE DENSITY:	Not determined
VAPOR DENSITY:	Not determined
EVAPORATION RATE:	< 1
SOLUBILITY IN/MISCIBILITY WITH WATER:	Not miscible or difficult to mix
SEGREGATION COEFFICIENT (n-octanol/water):	-1.76 log Kow
VISCOSITY:	
DYNAMIC:	Not applicable
KINEMATIC:	Not applicable
VISCOSITY @ 20°C:	1300 mPa's
MOLAR MASS:	92.1
VOLATILES, %:	Not more than 0.5%



STABILITY/REACTIVITY DATA

CHEMICAL STABILITY:	Stable at environment temperature
THERMAL DECOMP/CONDITIONS TO AVOID:	No decomposition if used according to specifications
HAZARDOUS REACTIONS:	No dangerous reactions known
INCOMPATIBLE MATERIAL:	Refer to Handling and Storage section
HAZARDOUS DECOMPOSITION PRODUCTS:	Poisonous vapors/gases

TOXICOLOGICAL INFORMATION

TOXICITY DATA:	ORAL:	LD 50	12600 mg/kg bw (rat)
	DERMAL:	LD 50	> 21900 mg/kg bw (rat)
PRIMARY IRRITANT EFFECT:	SKIN:	No irritant effect	
	EYES:	No irritating effect	
SENSITIZATION:	No sensitizing effects known		
ADDT'L TOXICOLOGICAL INFO:	With the information provided, the product does not have any harmful effects when used/handled according to specifications.		
	The substance is not subject to classification according to the latest version of the EU lists.		
CMR EFFECTS:			
CARCINOGENICITY:	No further relevant information available		
MUTAGENICITY:	Negative		
TOXICITY FOR REPRODUCTION:	No further relevant information available		

ECOLOGICAL INFORMATION

AQUATIC TOXICITY:	Acute EC50 (24)	> 10000 mg/L	Fish
	Acute LC100 (96h)	51000-57000 mg/L	Daphnia Magna
PERSISTENCE/DEGRADABILITY:	Easily biodegradable		
ENVIRONMENTAL SYSTEMS BEHAVIOR:			
BIO-ACCUMULATIVE POTENTIAL:	Due to the distribution coefficient n-octanol/water, an accumulation in organisms is not expected.		
MOBILITY IN SOIL:	No further relevant information available		
ADDITIONAL ECOLOGICAL INFO:			
GENERAL NOTES:	Do not allow undiluted product, or large quantities of it, to reach ground water, water course or sewage system.		
PBT AND vPvB ASSESSMENT:			
PBT:	Not applicable		
VPvB:	Not applicable		

DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHOD:	Must be specially treated adhering to official regulations Smaller quantities can be disposed of with household waste
UNCLEANED PACKAGING:	Disposal must be made according to official regulations



 TRANSPORT INFORMATION

LAND TRANSPORT ADR/RID (Cross-Border):

ADR/RID CLASS: -

MARITIME TRANSPORT IMDG:

IMDG CLASS: -

MARINE POLLUTANT: No

AIR TRANSPORT ICAO-TI and IATA-DGR:

ICAO/IATA CLASS: -

UN MODEL REGULATION: -

USER SPECIAL PRECAUTIONS: Not applicable

Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC Code

Glycerine

Pollution category: Z

Ship Type: Not specified

 REGULATORY INFORMATION

All components of this product are listed on the following inventories:

USA:	TSCA (Toxic Substances Control Act)	Regulations, 40 CFR 710
Canada:	DSL (Canada)	
Europe:	EINECS/ELINCS (Europe)	
Japan:	ENCS	
Australia:	AICS (Australia)	
Korea:	ECL	
China:	IECSC	
Philippines:	PICCS	
New Zealand:	ZNIOC	

CHEMICAL SAFETY ASSESSMENT: A chemical safety assessment has not been carried out.

OSHA Hazard Communication Standard, 29 CFR 1910.1200, Hazard Summary:

Physical Hazards: None

Health Hazards: None

WHMIS Classification:

Non-controlled (Nonhazardous)

CEROLA and SARA Regulations (40 CFR 355, 370, and 372):

This material contains the following chemicals subject to the reporting requirements of SARA 313:

NO SARA 313 CHEMICALS FOR THIS CHEMICAL

SARA 311/312 Hazard Categories:

Immediate: YES

Delayed: NO

Fire: YES

Pressure: NO

Reactivity: NO

State Regulations: None



OTHER INFORMATION

NFPA ratings and HMIS ratings were assigned to this product based on the hazards of its ingredient(s). Because the customer is most aware of the application of the product, he must ensure that the proper personal protective equipment is provided with information contained in the product MSDS.

OTHER PRECAUTIONS: Always work safely around open hatches on bulk tanks. The low density makes flotation difficult for immersed person.

HMIS Information: Health: 1 Flammability: 1 Reactivity: 0

NFPA Information: Health: 1 Flammability: 1 Reactivity: 0

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