HAZARDS IDENTIFICATION

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):
Health, Acute toxicity, 4 Oral
Health, Acute toxicity, 4 Inhalation
Health, Skin corrosion/irritation, 1
Health, Skin sensitization, 1
Health, Serious Eye Damage/Eye Irritation, 1
Health, Reproductive toxicity, 1
Health, Specific target organ toxicity - Repeated exposure, 1
Environmental, Hazards to the aquatic environment - Acute, 1
Environmental, Hazards to the aquatic environment - Chronic, 1
GHS Label Elements, Including Precautionary Statements
GHS Signal Word: DANGER
GHS Hazard Pictograms:

GHS Hazard Statements:
GHS Hazard Statements:
H302 - Harmful if swallowed
H332 - Harmful if inhaled
H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H332 - Harmful if inhaled
H360 - May damage fertility or the unborn child (state specific effect if known)(state route of exposure if it is conclusively proven that no
other routes of exposure cause the hazard)
H372 - Causes damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure
if it is conclusively proven that no other routes of exposure cause the hazard)
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
GHS Precautionary Statements:
No GHS precautionary statements indicated

COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredients:

CAS#	%	Chemical Name:
100-51-6	25-35%	Benzyl alcohol
84852	15-30%	Phenol, 4-nonyl-, branched

FIRST AID MEASURES

Inhalation: Get immediate medical attention. If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.
Skin Contact: Wash with soap and water. Remove contaminated clothing and wash before reuse. Get medical attention if needed.
Eye Contact: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Ingestion: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel.

FIRE FIGHTING MEASURES

Flash Point: >199F
Suitable Extinguishing Media: Water spray, alcohol-resistant foam, CO2, Dry powder.

Unsuitable Extinguishing Media: High volume water jet.

Unusual Fire and Eploxion Hazards: Firefighters should wear NFPA approved self-contained breathing apparatus and full protectiveclothing. Avoid contact with product. Decontaminate equipment and protective clothing prior to re-use. Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.

Hazardous Decomposition Products: On combustion, toxic gases, including nitrogen oxides, carbon monoxide, carbon dioxide, tin/tin oxides.

Advice to Firefighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire including self-contained breathng apparatus and NFPA compliant helmet, hood, boots and gloves. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture. Toxic gases/fumes may be given off during burning or thermal decomposition.

ACCIDENTAL RELEASE MEASURES

Personnel Precautions: Wear appropriate personal protective equipment. Evacuate surrounding areas and isolate the area. Keep unnecessary and unprotected personnel from entering. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Implement site emergency response plan.

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

Methods for containment: Remove all sources of ignition, including flames, heat, and sparks. Stop leak if without risk. Move containers from spill area. Dike or dam spilled material with non-combustible, abosorbent material (e.g., sand, earth, vermiculite or diatomaceous earth) and control further spillage, where possible. Make certain that absorbent material soaks up all liquids..

HANDLING AND STORAGE

Handling Precautions: Avoid breathing vapors or mist. Avoid

Methods for Clean-up: Cleanup peronnel must use appropriate personal prtective equipment. Evacuate and keep unnecessary peronnel out of spill area

HANDLING AND STORAGE

Handling Precautions: Handling: Do not breathe vapors or spray mist. Avoid contact with eyes or skin. Avoid contact with clothing. Use only with adequate ventilation and personal protection. Remove contaminated personal protective equipment (PPE), then wash hands and face thoroughly after handling and before eating and drinking. Keep container closed when not in use. Empty containers retain product residue and can be hazardous. Do not get in eyes, on skin or on clothing. Do not ingest. Keep away from heat, sparks, flames and other sources of ignition. Avoid release to the environment. Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination with moisture is suspected. Follow all SDS/label precautions even after container is emptied because it may retain product residues.

Storage Requirements: Storage: Keep away from food products during use and storage. Storage class (TRGS 510): non-combustible, acute toxic category 3/toxic hazardous materials or hazardous materials causing chronic effects. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled, unapproved or reactive containers. Use appropriate containment to avoid environmental contamination. Personnel education and training in the safe use and handling of this product are required under OSHA Hazard Communication Standard 29 CFR 1910.1200.

Incompatible Materials or Ignition Sources: Stable under recommended storage conditions. Do not store together with oxidizing and acidic materials. Do not store together with caustic solutions and alkalis. Store away from food stuffs. Avoid water, air humidity, oxidizing agents, cotton waste or other combustible materials. Keep away from sources of ignition - No smoking. Additional guidance on fire and explosion protection may be found in various consensus standards, including NFPA 30, 69 and 77 and API 2003 as well as OSHA regulation 29CFR1910.106.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: General dilution and local exhaust as necessary to control airborne vapors, mists, dusts, and thermal decomposition products below appropriate airborne concentration standards and guidelines. A safety shower and eye wash fountain should be readily available. To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination. Curing ovens must be ventilated to prevent the build-up of explosive atmospheres and to prevent off-gases from entering the work place.

Personal Protective Equipment: Respiratory: In case of inadequate ventilation, wear respiratory protection. 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. Use positive pressure supplied air respirator when airborne concentrations are not known, when airborne levels are 10 times the appropriate TLV, and when spraying is performed or product is applied by aerosol in a confined space or area with limited ventilation. If respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Contact health and safety professional or manufacturer for specific information.

Eye/Face: Use chemical resistant goggles. Chemical safety goggles in combination with a full face shield (8-inch minimum) must be used if a splash hazard exists. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Contact lenses should not be worn.

Hands: Use permeation resistant gloves such as neoprene or nitrile. The glove must be impermeable and resistant to the product/the substance/the preparation. Selection of the glove material does not only depend on the material, but also on its quality and varies from manufacturer to manufacturer. The resistance of the glove material and manufacture must be determined in advance of the application/use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Skin/Body: Wear rubber or plastic apron and permeation resistant clothing, chemical-resistant gloves, and long-sleeved shirts, and pants. Gloves must be inspected prior to use. Remove and wash contaminated clothing before re-use.

General Industrial Hygiene Considerations: Keep away from food and drink. Wash hands and face after use. Educate and train workers in the safe use and handling of this product. Emergency showers and eye wash stations should be available. Follow all label instructions.

Environmental Exposure Controls: Avoid release to the environment. Construct a dike to prevent spreading of spills. 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.

TOXICOLOGICAL INFORMATION

Acute Toxicity:

Oral (LD 50): > 1000 mg/KG
Inhalation (LC 50): ND
Skin irritation: ND

PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear
Physical State: Viscous liquid
Spec Grav./Density:1.02+- 0.1
Boiling Point: N/A
Solubility: Water soluble
Bulk Density: N/A

STABILITY AND REACTIVITY

Reactivity: N/A
Chemical Stability: Stable under recommended storage conditions.
Conditions to Avoid: Avoid oxidizing agents.
Materials to Avoid: Strong bases, strong oxidizing agents.
Hazardous Decomposition: Carbon monoxide, carbon dioxide, and nitrogen oxides.
Hazardous Polymerization: May react with catalysts, oxidizing agents, peroxides, strong alkali and other radical forming substances.

TRANSPORT INFORMATION

UN3082, Environmentally hazardous substances, liquid, n.o.s., 9, PG III
Non-hazardous for road freight.
IMDG, IATA UN 3082, Class 9, PG III Envirnmonteally hazardous substance, liquid n.o.s (Bisphenol A Epoxy Resin) Marine pollutant

REGULATORY INFORMATION

Component (CAS#) [%] - CODES

Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer (25085-99-8) [70-100%] TSCA
Benzyl alcohol (100-51-6) [0-20%] HAP, MASS, PA, TSCA
Phenol, polymer with formaldehyde, glycidyl ether (28064-14-4) [2-16%] TSCA

Regulatory CODE Descriptions

TSCA = Toxic Substances Control Act
HAP = Hazardous Air Pollutants
MASS = MA Massachusetts Hazardous Substances List
PA = PA Right-To-Know List of Hazardous Substances

OTHER INFORMATION

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