



GHS LABEL ELEMENTS INCLUDING PRECAUTIONARY STATEMENTS  
SYMBOL



SIGNAL WORD                      Danger

HAZARD STATEMENT :   ·May cause cancer.

PRECAUTIONARY STATEMENTS

- [PREVENTION]                      ·Do not handle until "SAFETY DATA SHEETS" has been read and understood well.  
    ·Keep away from flames and heat.  
    ·Avoid inhaling, swallowing, contact with eyes and skin. Wear safety glasses, gloves and face protection.  
    ·Wash hands and face thoroughly and rinse mouth after handling.
- [RESPONSE]                              ·IN CASE OF FIRE : Use carbon dioxide, dry chemical powder and foam for extinction.  
    ·IN CASE OF MAJOR FIRE : Use foam and a large amount of water fog to extinguish.  
    ·IF SWALLOWED : Rinse mouth. Do NOT induce vomiting.  
    ·IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.  
    ·IF ON SKIN : Wash with plenty of soap and water.  
    ·IF IN EYES : Rinse cautiously for several minutes.  
                         Remove contact lenses, if present and easy to do. Continue rinsing.
- [STORAGE]                                ·IF EXPOSED OR CONCERNED : Get medical advice/attention.  
    ·Keep container tightly closed and store in a well-ventilated place.  
    ·Store locked up.
- [DISPOSAL]                                ·Dispose of contents/container in accordance with national and regional regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS   (The contents are representative values.)

SUBSTANCE/MIXTURE : Substance

COMMON NAME(S),SYNONYM(S) OF THE SUBSTANCE

: Polyoxypropyleneglycol diglycidyl ether

UNIQUE IDENTIFIERS FOR THE SUBSTANCE

: Proprietary

COMPONENTS AND CONTENTS

: Trade secret

COMPONENTS WHICH CONTRIBUTE TO THE CLASSIFICATION OF THE SUBSTANCE AND  
HAZARDOUS INGREDIENT (S) – JAPANESE REGULATION–

	Wt.%
: Polyoxypropyleneglycol diglycidyl ether	99.9%
Epichlorohydrin (impurity)	0.1%

4. FIRST AID MEASURES

- IF INHALED                      :   ·Remove to fresh air and keep at rest in a position comfortable for breathing.  
                         Get medical advice/attention, if you are experiencing respiratory symptoms.
- IF ON SKIN                        :   ·Wipe with the soft paper or the cloth, etc. Wash with plenty of soap and water. Get medical advice/attention, if necessary.
- IF IN EYES                        :   ·Rinse cautiously for 15 minutes or more. Get medical advice/attention immediately.
- IF SWALLOWED                 :   ·After rinsing mouth immediately, give ca. 250ml of milk or water. Get medical advice/attention immediately. Do not induce vomiting.  
                         ·Do not give anything by mouth to the victim when not conscious.

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA                      : Carbon dioxide, dry chemical powder, foam, water fog

UNSUITABLE EXTINGUISHING MEDIA : Water jet

SPECIFIC EXTINCTION METHOD

- : ·Eliminate all ignition sources, and use suitable extinguishing media.
- Spray water on the surrounding equipment for cooling.

SPECIAL PROTECTIVE ACTION FOR FIRE- FIGHTERS

- : ·Extinguish from the windward to prevent poisonous gas from being inhaled.
- Appropriate protective equipment (gloves, glasses, and mask) must be worn.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

- : ·Wear appropriate protective equipment (gloves, safety goggle, etc.).
- The spilled area is slippery.

ENVIRONMENTAL PRECAUTIONS

- : ·Do not allow spillage out into the environment causing pollution e.g., rivers, waterways.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

- : ·Keep away from ignition sources.
- Contain spillage by making on embankment of earth, sand, etc., and collect into container(s) by shoveling or vacuuming.
- In case of small spillage, absorb with sand, sawdust, etc.
- In case of very small spillage, wipe clean with the rag, etc.

7. HANDLING AND STORAGE

HANDLING

TECHNICAL MEASURES

- : ·Handle in a well-ventilated area. Wear safety glasses, gloves and face protection, etc. Avoid direct contact.
- Set local exhaust or general ventilation of as described in chapter "8. EXPOSURE CONTROLS/PERSONAL PROTECTION".

PRECAUTIONS FOR SAFE HANDLING

- : ·Wash hands and face thoroughly and rinse mouth after handling.
- In case to wash work clothes, gloves, shoes, etc. contaminated with the product, avoid contact with clothes.

CONTACT AVOIDANCE

- : ·Avoid contact with strong oxidizing agents, etc.
- Keep fire away.

STORAGE

CONDITIONS FOR SAFE STORAGE

- : ·Keep container tightly closed and store in a well-ventilated indoors.
- Set up a Keep Fire Away-No Visitors sign.

PACKAGING MATERIAL

- : ·Store in original containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

ACGIH : Not established

(1)

APPROPRIATE ENGINEERING CONTROLS

- : ·Establish the adequate local exhauster if vapor, dust or mist occurs.
- Establish eye washing and body washing facilities near the work areas.

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION : ·Not required under normal conditions.

HAND PROTECTION : ·Impervious gloves

EYE/FACE PROTECTION : ·Safety glasses

SKIN AND BODY PROTECTION : ·Work clothes with long sleeves

9. PHYSICAL AND CHEMICAL PROPERTIES (representative values)

APPEARANCE (at 20°C)

PHYSICAL STATE : Liquid  
 COLOR : Pale yellow  
 ODOR : Slightly specific odor  
 MELTING POINT/FREEZING POINT : Below 20°C (68°F) (Freezing point)  
 BOILING POINT OR INITIAL BOILING POINT AND BOILING RANGE : No data  
 FLAMMABILITY : No data  
 LOWER AND UPPER EXPLOSION LIMIT /FLAMMABILITY LIMIT : No data  
 FLASH POINT : 202°C (395.6°F) (Cleveland Open Cup)  
 AUTO-IGNITION TEMPERATURE : No data  
 DECOMPOSITION TEMPERATURE : No data  
 pH : 7.0 (14% water/isopropyl alcohol solution)  
 KINEMATIC VISCOSITY : (Viscosity) 44mPa·s (at 25°C)  
 SOLUBILITY  
   WATER SOLUBILITY : Insoluble  
 PARTITION COEFFICIENT N-OCTANOL/WATER (LOG VALUE) : No data  
 VAPOUR PRESSURE : No data  
 DENSITY AND/OR RELATIVE DENSITY : 1.10 (at 20°C) (Specific gravity)  
 RELATIVE VAPOUR DENSITY : No data  
 PARTICLE CHARACTERISTICS : No data

**10. STABILITY AND REACTIVITY**

REACTIVITY : No data  
 CHEMICAL STABILITY : Stable under normal conditions.  
 POSSIBILITY OF HAZARDOUS REACTIONS : Reacts with strong oxidizing agents, etc.  
 CONDITION TO AVOID : No data  
 INCOMPATIBLE MATERIAL: Strong oxidizing agents, etc.  
 HAZARDOUS DECOMPOSITION PRODUCTS : No data  
 OTHERS : No data

**11. TOXICOLOGICAL INFORMATION (DATA for this product or similar product.)**

ACUTE TOXICITY [ORAL] : No classification  
   LD50 > 2000 ml/kg (rat) (OECD) (Not classified) (similar product) (2)  
 ACUTE TOXICITY [SKIN] : Classification not possible  
   No data  
 ACUTE TOXICITY [INHALATION: GAS] : No classification  
   Not classified by the GHS definition of gas.  
 ACUTE TOXICITY [INHALATION: VAPOR] : Classification not possible  
   No data  
 ACUTE TOXICITY [INHALATION: DUST, MIST] : Classification not possible  
   No data  
 SKIN CORROSION / IRRITATION : No classification  
   Non irritant (rabbit)(OECD) P.I.I= 0 (Not classified) (similar product) (2)  
 SERIOUS EYE DAMAGE/EYE IRRITATION : No classification  
   Minimal irritant (rabbit) (OECD) class= 3 (Not classified) (similar product) (2)  
 RESPIRATORY SENSITIZATION : Classification not possible  
   No data

SKIN SENSITIZATION	: Classification not possible	
No data		
GERM CELL MUTAGENICITY	: Classification not possible	
(reference) Positive (Ames)		(2)
CARCINOGENICITY	: Category 1	
[Epichlorohydrin] Category 1B		(3)
REPRODUCTIVE TOXICITY	: Classification not possible	
No data		
SPECIFIC TARGET ORGAN TOXICITY –SINGLE EXPOSURE	: Classification not possible	
No data		
SPECIFIC TARGET ORGAN TOXICITY –REPEATED EXPOSURE	: Classification not possible	
No data		
ASPIRATION HAZARD	: Classification not possible	
No data		

12. ECOLOGICAL INFORMATION (DATA for this product or similar product.)

SHORT-TERM (ACUTE) AQUATIC HAZARDS	: Classification not possible	
No data		
ECOTOXICITY : No data		
LONT-TERM (CHRONIC) AQUATIC HAZARDS	: Classification not possible	
No data		
PERSISTENCE AND DEGRADABILITY	: No data	
BIOACCUMULATION POTENTIAL	: No data	
MOBILITY IN SOIL	: No data	
OTHER DATA	: No data	
HAZARDOUS TO THE OZONE LAYER	: Classification not possible	
No data		

13. DISPOSAL CONSIDERATIONS

·Dispose of contents/container in accordance with national and regional regulations.

14. TRANSPORT INFORMATION

UN NUMBER	: Not applicable
PROPER SHIPPING NAME	: Not applicable
UN CLASS	: Not applicable
PACKING GROUP	: -
ENVIRONMENTAL HAZARDS	: Not applicable
INTERNATIONAL REGULATIONS	
LAND	: Transport in accordance with national and regional regulations ( RID, ADR, DOT, etc.).
SEA	: Transport in accordance with IMDG Code.
AIR	: Transport in accordance with ICAO-TI/IATA-DGR.
EMERGENCY RESPONSE GUIDELINE NUMBER	: 171

15. REGULATORY INFORMATION

Regulatory information with regards to this substance in your country or in your region should be examined by your own responsibility.

## 16. OTHER INFORMATION

## REFERENCES

- (1) TLVs and BEIs, ACGIH, 2015
- (2) SDS of supplier
- (3) Results of the GHS classification, National Institute of Technology and Evaluation (NITE)

\* All specifications which were created based on the information which was available at the time and may be revised at anytime according to new information.

\* To the best of our knowledge, the information contained herein is accurate. However, Sanyo Chemical Industries, Ltd. assumes no liability whatsoever for the accuracy or completeness of the information contained herein. All materials may present unknown health hazards and should be used with caution. Final determination of suitability of any material is the sole responsibility of the user.

## CONTACT

COMPANY : SAN NOPCO LIMITED  
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