

Product name Mega Therm - part a

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name: *Mega Therm part a*

Recommended use of the chemical and restrictions on use Identified uses: Heat - insulated material for industry coating

COMPANY IDENTIFICATION :

EPOLAC (Eng.J.Zamlar) LTD
Hamerkava 2 st
Ziporit Ind Zone
P.O.BOX 747 1710602 ISRAEL
www.epolac.com

Customer Information Number: Tel + 972 4 6518851

Fax + 972 4 6519151

inf@epolac.com

EMERGENCY TELEPHONE NUMBER : Tel + 972 4 6518851

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

Skin Sens. Category 1 H317

Skin Corr./Irrit. Category 2 H315

Eye Dam./Irrit. Category 2 H319

Adverse effects

Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictograms :



GHS07

Signal word : Warning

Hazard statements

H302 Harmful if swallowed

H317 May cause an allergic skin reaction.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

P-statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P280 Wear eye protection/face protection.

P261 Avoid breathing.

P264 Wash thoroughly after handling

P273 Avoid release to the environment.

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P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P321 Specific treatment (see ... on this label).
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.

Disposal Dispose of contents and container in accordance with all local, regional, national and international regulations.








2.3. Other hazards

The data show that the properties of the substance do not meet the specific criteria detailed in Annex XIII and, consequently, that the substance is not considered a PBT/vPvB.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component:

Substance/mixture : Mono-constituent substance

CASRN / EC-No. / Index-No.	Concentration	Component	Classification
CAS no 25068-38-6 EC-No. 500-033-5 Reg.n 211-956-11-926-01	70 - 75%	Reaction product :bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)	Aquatic Chronic 2 H411  Skin Sens. 1 H317 Skin Corr./Irrit. 2 H315  Eye Dam./Irrit. 2 H319 
CAS no 68609-97-2 EC-No. 271-846-6	5 – 15 %	Oxirane, mono[(C12-14-alkyloxy)methyl] derivs	Skin Corr./Irrit. 2 H315  Skin Sens. 1 H317 
CAS no 100-51-6 EC-No. 202-859-9 Reg.n 211-942630-38-01	5 – 7 %	Benzyl Alcohol	Acute Tox. 4, H 302 , H332  Eye Dam./Irrit. 2 H319 

See Section 16 for full text of phrases .

4. FIRST AID MEASURES

Description of first aid measures :

General advice: First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment .

Inhalation: Move person to fresh air; if effects occur, consult a physician .

Skin Contact: Remove material from skin immediately by washing with soap and plenty of water .

Remove contaminated clothing and shoes while washing. Seek medical attention if irritation persists .

Wash clothing before reuse. Discard items which cannot be decontaminated, including leather articles

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such as shoes, belts and watchbands .

Eye Contact: Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist. Suitable emergency eye wash facility should be available in work area .

Ingestion: No emergency medical treatment necessary .

Most important symptoms and effects, both acute and delayed :

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), no additional symptoms and effects are anticipated .

Indication of immediate medical attention and special treatment needed :

No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient .

5. FIREFIGHTING MEASURES

Suitable extinguishing media :

Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam .Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF (or protein foams may function, but will be less effective. Water fog, applied gently may be used as a blanket for fire extinguishment .

Extinguishing Media to Avoid: Do not use direct water stream. May spread fire .

Special hazards arising from the substance or mixture :

Hazardous Combustion Products: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Phenolic. Carbon monoxide. Carbon dioxide .

Unusual Fire and Explosion Hazards: Container may rupture from gas generation in a fire situation .Violent steam generation or eruption may occur upon application of direct water stream to hot liquids .
Dense smoke is emitted when burned without sufficient oxygen .

Advice for firefighters

Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of resignation has passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Do not use direct water stream. May spread fire. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage.

Water fog, applied gently may be used as a blanket for fire extinguishment. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage. Review the "Accidental Release Measures" and the "Ecological Information" sections of this (M)SDS .

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Special Protective Equipment for Firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers ,boots, and gloves). Avoid contact

with this material during fire fighting operations. If contact is likely ,change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections .

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to Section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information ,refer to Section 8, Exposure Controls and Personal Protection .

Environmental precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information .

Methods and materials for containment and cleaning up: Contain spilled material if possible .Absorb with materials such as: Sand. Polypropylene fiber products. Polyethylene fiber products .Remove residual with soap and hot water. Collect in suitable and properly labeled containers .Residual can be removed with solvent. Solvents are not recommended for clean-up unless the recommended exposure guidelines and safe handling practices for the specific solvent are followed .Consult appropriate solvent Safety Data Sheet for handling information and exposure guidelines.
See Section 13, Disposal Considerations, for additional information .

7. HANDLING AND STORAGE

Handling

General Handling: Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION .

Storage : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination

Shelf life: Use within 24 months

Storage temperature : 2 - 43 °C

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

None established

Personal Protection :

Safety data sheet

according to 1907/2006/EC, Article 31

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Eye/Face Protection: Use safety glasses (with side shields). Safety glasses (with side shield) should be consistent with EN 166 or equivalent .

Skin Protection: Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task .

Hand protection: Use chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and micro-organisms. Examples of preferred glove barrier materials include: Butyl rubber. Ethyl vinyl alcohol laminate ("EVAL"). Nitrile/butadiene rubber ("nitrile " or "NBR"). Neoprene. Polyvinyl chloride ("PVC" or "vinyl").When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 1 or higher (breakthrough time greater than 10 minutes according to EN 374) is recommended. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled ,physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier .

Respiratory Protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions, no respiratory protection should be needed; however, if material is heated or sprayed, use an approved air-purifying respirator. Use the following CE approved air-purifying respirator: Organic vapor cartridge with a particulate pre-filter, type AP2 .

Ingestion: Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating .

Engineering Controls

Ventilation: Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.



Product:

bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight <=700)

Short term Dermal/Systemic 8.3 mg/kg bw/day Workers

Short term Inhalation/Systemic 12.3 mg/m³ Workers

Long term Dermal/Systemic 8.3 mg/kg bw/day Workers

Long term Inhalation/Systemic 12.3 mg/m³ Workers

Short term Dermal/Systemic 3.6 mg/kg bw/day General

Short term Inhalation/Systemic 0.75 mg/m³ General

Short term Oral/Systemic 0.75 mg/kg

bw/day

General

Long term Dermal/Systemic 3.6 mg/kg bw/day General

Long term Inhalation/Systemic 0.75 mg/m³ General

Long term Oral/Systemic 0.75 mg/kg

bw/day

General

Product name: Mega Therm part a**PAGE 6/11****benzyl alcohol****Effect level (DNEL/DMEL) Type Value Remark**

DNEL Acute systemic effects dermal 47 mg/kg bw/day

Acute systemic effects inhalation 450 mg/m³

Long-term systemic effects dermal 9.5 mg/kg bw/day

Long-term systemic effects inhalation 90 mg/m³**General population**

benzyl alcohol

Effect level (DNEL/DMEL) Type Value Remark

DNEL Acute systemic effects dermal 28.5 mg/kg bw/day

Acute systemic effects inhalation 40.55 mg/m³

Acute -systemic effects oral 25 mg/kg bw/day

Long-term systemic effects dermal 5.7 mg/kg bw/day

Long-term systemic effects inhalation 8.11 mg/m³

Long-term systemic effects oral 5 mg/kg bw/day

Worker Professional: 0.0005 mg/l - Exposure: Human Inhalation

Worker Professional: 7.5 mg/kg - Exposure: Human Dermal

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance****Physical State**

Liquid

Color

colorless

Odor

Mild

Odor Threshold

No test data available

pH

7

Melting Point

Not applicable

Freezing Point

Not determined

Boiling Point (760 mmHg)

≥ 205 °C

Flash Point - Closed Cup

145 °C PMCC, ASTM D93

Evaporation Rate (Butyl Acetate = 1)

No test data available

Flammability (solid, gas)

No

Flammable Limits In Air**Lower:** Not applicable**Upper:** Not applicable**Vapor Pressure**

0.06 mmHg @ 70 °F Literature (alkyl glycidyl ether)

Vapor Density (air = 1)

Not applicable

Specific Gravity (H₂O = 1)

1.11-1.14 Literature

Solubility in water (by weight)

Insoluble

Partition coefficient, n-octanol/water (log Pow)

No data available for this product. See Section 12 for individual component data .

Autoignition Temperature

Not determined

Decomposition Temperature

No test data available

Dynamic Viscosity

600 - 800 cPs @ 25 °C ASTM D445

Kinematic Viscosity

No test data available

Explosive properties

No data available

Oxidizing properties

No data available

Molecular Weight

Not determined

10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use .

Chemical stability : Stable under recommended storage conditions. See Storage, Section 7 .

Possibility of hazardous reactions: Polymerization will not occur by itself. Masses of more than one pound (0.5 kg) of product plus an aliphatic amine will cause irreversible polymerization with considerable heat build-up .

Conditions to Avoid: Avoid short term exposures to temperatures above 300 °C. Avoid prolonged exposure to temperatures above 250 °C. Potentially violent decomposition can occur above 350 °C. Generation of gas during decomposition can cause pressure in closed systems .
Pressure build-up can be rapid .

Incompatible Materials: Avoid contact with oxidizing materials. Avoid contact with: Acids. Bases .
Avoid unintended contact with amines .

Hazardous decomposition products : Decomposition products depend upon temperature, air supply and the presence of other materials .Gases are released during decomposition. Uncontrolled exothermic reaction of epoxy resins release phenolics, carbon monoxide, and water .

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Ingestion Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts .

As product: Single dose oral LD50 has not been determined. Based on information for component(s) :LD50, rat > 5,000 mg/kg

Aspiration hazard: Based on physical properties, not likely to be an aspiration hazard .

Dermal Prolonged skin contact is unlikely to result in absorption of harmful amounts .As product: The dermal LD50 has not been determined. For the major component(s): LD50, rabbit 20,000 < mg/kg

Inhalation : At room temperature, exposure to vapor is minimal due to low volatility. Vapor from heated material , mist or aerosols may cause respiratory irritation.The LC50 has not been determined .

Eye damage/eye irritation : May cause eye irritation. Corneal injury is unlikely.

Skin corrosion/irritation : Prolonged contact may cause skin irritation with local redness. Repeated contact may cause skin irritation with local redness

Sensitization

Skin : Skin contact may cause an allergic skin reaction. A component in this mixture has caused allergic skin reactions in humans .

Respiratory : No relevant data found .

Repeated Dose Toxicity : For the major component(s): Except for skin sensitization, repeated exposures to low molecular weight epoxy resins of this type are not anticipated to cause any significant adverse effects .

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Chronic Toxicity and Carcinogenicity : Many studies have been conducted to assess the potential carcinogenicity of diglycidyl ether of bisphenol A (DGEBA). Indeed, the most recent review of the available data by the International Agency for Research on Cancer (IARC) has concluded that DGEBA is not classified as a carcinogen . Although some weak evidence of carcinogenicity has been reported in animals, when all of the data are considered, the weight of evidence does not show that DGEBA is carcinogenic .

Developmental Toxicity : Resins based on the diglycidyl ether of bisphenol A (DGEBA) did not cause birth defects or other adverse effects on the fetus when pregnant rabbits were exposed by skin contact, the most likely route of exposure, or when pregnant rats or rabbits were exposed orally .

Reproductive Toxicity : In animal studies, did not interfere with reproduction .

Genetic Toxicology : Contains component(s) which were negative in some in vitro genetic toxicity studies and positive in others. Contains component(s) which were negative in animal genetic toxicity studies .

12. ECOLOGICAL INFORMATION

Toxicity

Data for Component: Oxirane, mono[(C12-14-alkyloxy)methyl] derivs .

Material is not classified as dangerous to aquatic organisms (LC50/EC50/IC50/LL50/EL50 greater than 100 mg/L in most sensitive species).

Fish Acute & Prolonged Toxicity :LC50, Oncorhynchus mykiss (rainbow trout), static test, 96 h: > 5,000 mg/l
LC50, Lepomis macrochirus (Bluegill sunfish), static test, 96 h: 1,800 mg/l

Aquatic Plant Toxicity :EbC50, Pseudokirchnerie lla subcapitata (green algae), Growth inhibition (cell density reduction), 72 h: 843 mg/l

NOEC, Pseudokirchnerie lla subcapitata (green algae), Growth inhibition (cell density reduction), 72 h: 500 mg/l

Data for Component: Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)

Material is toxic to aquatic organisms: (LC50/EC50/IC50 between 1 and 10 mg/L in the most sensitive species .(

Fish Acute & Prolonged Toxicity : LC50, Oncorhynchus mykiss (rainbow trout), semi-static test, 96 h: 2 mg/l

Aquatic Invertebrate Acute Toxicity :EC50, Daphnia magna (Water flea), static test, 48 h, immobilization: 1.8 mg/l

Aquatic Plant Toxicity : ErC50, Scenedesmus capricornutum (fresh water algae), static test, Growth rate inhibition, 72 h: 11 mg/l

Toxicity to Micro-organisms : IC50; Bacteria, 18 h: > 42.6 mg/l

Aquatic Invertebrates Chronic Toxicity Value : Daphnia magna (Water flea), semi-static test, 21 d, number of offspring, NOEC: 0.3 mg/l

Persistence and Degradability : Data for Component : Oxirane, mono[(C12-14-alkyloxy)methyl] derivs .
Material is readily biodegradable. Passes OECD test(s) for ready biodegradability .

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according to 1907/2006/EC, Article 31

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Biodegradation	Exposure Time	Method	10 Day Window
87%	28 d	OECD 301F Test	pass

Data for Component: Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

OECD Biodegradation Tests:

Biodegradation	Exposure Time	Method	10 Day Window
12%	28 d	OECD 302B Test	Not applicable

Bio accumulative potential

Data for Component: Oxirane, mono[(C12-14-alkyloxy)methyl] derivs .

Bioaccumulation: Bio concentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5).

Partition coefficient, n-octanol/water (log Pow): 3.77 Shake flask (OECD 107 Test).

Bio concentration Factor (BCF): 160; Fish; Estimated .

Data for Component: Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700).

Bioaccumulation: Bio concentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5).

Partition coefficient, n-octanol/water (log Pow): 3.242 Estimated .

Mobility in soil

Data for Component: Oxirane, mono[(C12-14-alkyloxy)methyl] derivs .

Mobility in soil: Expected to be relatively immobile in soil ($K_{oc} > 5000$).

Partition coefficient, soil organic carbon/water (Koc): $> 5,000$ OECD 121: HPLC Method

Henry's Law Constant (H): $1.12E-02$ atm*m³/mole Estimated .

Data for Component: Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

Mobility in soil: Potential for mobility in soil is low (K_{oc} between 500 and 2000)., Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process .

Partition coefficient, soil organic carbon/water (Koc): 1,800 - 4,400 Estimated .

13. DISPOSAL CONSIDERATIONS

Disposal methods:

This product, when being disposed of in its unused and uncontaminated state should be treated as a hazardous waste according to EC Directive 2008/98/EC. Any disposal practices must be in compliance with all national and provincial laws and any municipal or local by-laws governing hazardous waste. For used, contaminated and residual materials additional evaluations may be required. Do not dump into any sewers, on the ground, or into any body of water .

14. TRANSPORT INFORMATION

Classification for ROAD and Rail transport:

Proper Shipping Name: Void
Technical Name: Void
Hazard Class: Void
ID Number: Void
Packing Group: Void

Classification:

Hazard identification No: Void
Environmental Hazard: Void

Classification for SEA transport (IMO-IMDG):

Proper Shipping Name: Void
Technical Name: Void

Hazard Class: Void
ID Number: Void
Packing Group: Void
EMS Number: Void
Marine pollutant: Void

Classification for AIR transport (IATA/ICAO):

Proper Shipping Name: Void
Technical Name: Void
Hazard Class: Void
ID Number: Void
Packing Group: Void
Cargo Packing Instruction: Void
Passenger Packing Instruction: Void

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material .

15. REGULATORY INFORMATION

Label**US. Toxic Substances Control Act**

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30

European Inventory of Existing Commercial Chemical Substances (EINECS)

Components of this product are not listed on EINECS because they are polymers or "no-longer polymers" marketed before the enforcement of the 7th Amendment to Directive 67/548/EEC .

Contains : Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)
Contains epoxy constituents. See information supplied by the manufacturer .

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Reaction product: Bisphenol A-(epichlorohydrin); epoxy resin (number average molecular weight (700 =>) can also be described by the CAS# 025085-99-8 .

16. OTHER INFORMATION**Hazard statements**

H411 - Toxic to aquatic life with long lasting effects.

H317 - May cause an allergic skin reaction.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

P-statements

P280 Wear eye protection/face protection.

P261 Avoid breathing

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313+ P338 If eye irritation persists: Get medical advice / attention.

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Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document .

TWA	Time Weighted Average
ACGIH	American Conference of Governmental Industrial Hygienists, Inc
DOW IHG	Epolac Industrial Hygiene Guideline
WEEL	Workplace Environmental Exposure Level
HAZ_DES	Hazard Designation

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