Material Safety Data Sheet



PRODUCT NAME: DMDM HYDANTOIN

CHEMICAL PRODUCT AND DISTRIBUTOR IDENTIFICATION

TRADE NAME: DMDM HYDANTOIN

CAS #: 6440-58-0

DATE: September 16, 2008

DISTRIBUTOR: ACME-HARDESTY COMPANY

ADDRESS: 450 Sentry Parkway

Blue Bell, PA 19422

TELEPHONE: (866) 226 – 3834 FAX: (215) 591 – 3620

EMERGENCY: CHEMTREC (800) 424-9300

COMPOSITION / INFORMATION ON INGREDIENTS

DANGEROUS SUBSTANCE
CAS# RANGE (%) SYMBOL / R PHRASE
1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine
[EC No 229-222-8]

SYMBOL / R PHRASE
6440-58-0
55 %

Formaldehyde 50-00-0 NMT 1 % Xi 43

[EC No 200-001-8]

HAZARDS IDENTIFICATION

HAZARDS DESIGNATION: Xi

MAN/ENVIRONMENT PARTICULAR DANGERS: R43 – May cause sensitization by skin contact

NOTE: Classification system EC-classification published in CHIP approved supply list.

STABILITY AND REACTIVITY

HAZARDOUS REACTIONS: No hazardous reactions known.

HAZARDOUS DECOMP. PROD: No hazardous decomposition products known.

FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Water spray jet, dry powder, CO₂, Foam **DO NOT USE** Full Water jet for safety reasons

SPECIAL PROTECTIVE EQUIPMENT: Use breathing apparatus.

SPECIAL EXPOSURE HAZARDS ARISING FROM SUBSTANCE/PREPARATION ITSELF,

COMBUSTION PRODUCTS: Risk of formation of toxic pyrolysis products
ADDITIONAL INFORMATION: Cool containers at risk with water spray jet.

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PHYSICAL AND CHEMICAL PROPERTIES

FORM: Liquid Colorless COLOR: ODOR: Almost odorless

pH VALUE: 6.5 - 7.5MELTING POINT: ca. -11°C 96°C **BOILING POINT:** 100°C FLASH POINT: FLAMMABILITY (°C): **SELF-IGNITION TEMP:** LEL: UEL:

COMBUSTIBLE PROPERTIES

VAPOR PRESSURE, (20°C): $1.06 \times 10^{-09} \text{mmHg}$ $1.15 - 1.16 \text{ g/cm}^3/25^{\circ}\text{C}$ DENSITY:

SOLUBILITY IN WATER Soluble PARTITION COEFFICIENT: n-octanol/water: VISCOSITY:

FIRST AID MEASURES

Not applicable. GENERAL INFORMATION:

Ensure supply of fresh air. In the event of symptoms refer for medical treatment INHALATION: Wash off immediately with soap & water. Consult a doctor if skin irritation persists. SKIN CONTACT:

Rinse thoroughly with plenty of water and seek medical advice. EYE CONTACT:

INGESTION: Rinse out mouth and give plenty of water to drink. Seek medical advice immediately.

ADVICE TO DOCTOR/TREATMENT: Treat symptomatically

ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

ENVIRONMENTAL PRECAUTIONS:

METHODS FOR CLEAN-UP:

Ensure adequate ventilation. Keep away from sources of ignition Do not discharge into the drains/surface waters/groundwater.

Take up with absorbent material (e.g. sand). Dispose of absorbed material in accordance

with the regulations.

DISPOSAL CONSIDERATIONS

DISPOSAL / PRODUCT: Disposalmust be in accordance with local, state, or federal regulations.

DISPOSAL/CONTAMINATED PKG: Empty contaminated packaging thoroughly. They can be recycled after thorough and

proper cleaning.

RECOMMENDED CLEANING AGENT: Water, if necessary, with cleaning agent.

EUROPEAN WASTE CATALOGUE:

WASTES FROM ORGANIC CHEMICAL PROCESSES 07 00 00

07 06 00 Wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics

07 06 99 Wastes not otherwise specified _____

HANDLING AND STORAGE

SAFE HANDLING: Avoid the formation of aerosols.

Use only in well-ventilated areas. Use solvent resistant equipment

STORAGE ROOM/VESSELS: Keep only in original container.

Keep container in a well-ventilated place.

Keep container tightly closed. Protect from heat/overheating

Provide solvent-resistant and impermeable floor.

STORAGE COMPATIBILITY: Not applicable.

FIRE/EXPLOSION PROTECTION: Take precautionary measures against static discharges.

Keep away from sources of ignition.

EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION: Breathing apparatus in event of aerosol or mist formation.

Short term: filter apparatus, combination filter A-P1

HAND PROTECTION: Gloves (solvent resistant)
EYE PROTECTION: Protective goggles.
SKIN PROTECTION: Not applicable

GENERAL PROTECTIVE MEASURES:

Do not inhale gases/vapors/aerosols. Avoid contact with eyes and skin.

HYGIENE MEASURES:

Do not smoke when working. Wash hands before breaks and after work. Use barrier

skin cream.

TOXICOLOGICAL INFORMATION

Dimension Species Value:
ACUTE ORAL TOXICITY LD50 rat 5000 mg/kg
ACUTE DERMAL TOXICITY: LD50 rabbit ---

ACUTE DERMAL TOXICITY: LD50 rabbit --ACUTE INHALATIVE TOXICITY: LC50 rat ---

IRRITANT EFFECT ON SKIN --IRRITANT EFFECT ON EYE: ---

SENSITIZATION: Sensitization possible by skin contact

GENERAL REMARKS: Not applicable.

ECOLOGICAL INFORMATION

INFORMATION ABOUT ELIMINATION (PERSISTENCE AND DEGRADABILITY):

The components are readily biodegradable/to eliminate

BEHAVIOR IN ENVIRONMENT COMPARTMENTS:

FISH TOXICITY N/A
DAPHNIA TOXICITY N/A
BACTERIA TOXICITY N/A
BEHAVIOR IN SEWAGE PLANT N/A

MOBILITY AND BIO-ACCUMULATION POTENTIAL:

Due to the distribution coefficient n-octanol/water, an accumulation in organisms is not expected. Log Pow –2.37; 1,3-bis(hydroxymethyl)-5,5-dimethyllimidazolidine.

ECO-TOXICOLOGICAL EFFECTS:

LC50 / 96 h 173 – 515 mg/l (fish) EC50 / 96 h 37 mg/l (Daphnia)

CHEMICAL OXYGEN DEMAND

BIOCHEMICAL OXYGEN DEMAND

AOX-ADVICE

No

CONTAINS HEAVY METALS AND COMPOUNDS OF 76/464 EC: Due to its formulation, the product does not contain

any heavy metals

TRANSPORT INFORMATION

LAND TRANSPORT ADR/RID (cross-border domestic):

ADR/RID ADG (Australia) class: No dangerous good

UN-No.: --Packaging Group: --Label: --Destination of Goods: --Marine transport/IMDG/GGVSea: ---

IMDG Class: No dangerous good

UN-No..: --Packing Group --Label: --EMS Number: --Marine Pollutant: --Proper shipping name ---

Air Transport/ICAO and IATA-DGR

ICAO/IATA Class: No dangerous good

UN No.: --Label: --Packing group --Proper shipping name ---

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REGULATORY INFORMATION

LABELING Does not require a hazard warning label, but the normal safety precautions for

handling chemicals must be observed.

LETTER/HAZARD DESIGNATION: Xi Irritant

HAZARD SYMBOLS:

R Phrase: R43 May cause sensitization by skin contact

S Phrases: S26 Avoid contact with skin

S36/37 Wear suitable protective clothing and gloves

REGULATIONS WHICH MAY APPLY IN EVENT OF ACCIDENT:

CONTROL OF MAJOR ACCIDENT HAZARDS (COMAH): Not listed in COMAH

WATER HAZARD CLASS: WGK 1

TSCA: Listed

ADDITIONAL INFORMATION

ADDITIONAL INFORMATION: The product contains materials that are harmful to the environment.

Avoid transfer into the environment.

The data herein are based on our current knowledge and believed to be reliable. Acme-Hardesty Co., provides this information without any representation or warranty, expressed or implied, regarding its accuracy or correctness.

Users must make their own determination that handling, storage and use of the product in the anticipated manner is safe and appropriate. Because these actions of the user are out of our control, and may be beyond our knowledge, we do not assume responsibility and expressly disclaim liability for loss, damage, expense or any other claim arising out of or in any way connected with the handling, storage, use or disposal of the product.

Disposal of containers must comply with applicable federal, state and local laws and regulations. Empty containers should never be given to individuals.