MATERIAL SAFETY DATA SHEET

SECTION 1. - - - - - - - - - CHEMICAL IDENTIFICATION- - - - - - - - - -
CATALOG #: M6035
NAME: 4-(N-MALEIMIDOMETHYL)CYCLOHEXANE-1-CARBOXYLIC ACID 3-SULFO-
N-HYDROXYSSUCINIMIDE ESTER SODIUM

SECTION 2. - - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - - -
CAS #: 92921-24-9
MF: C16H17N2NAO9S
ADDITIONAL INFORMATION
CONTAINS N,N-DIMETHYLFORMAMIDE (DMF), CHEMICAL ABSTRACTS REGISTRY
NUMBER 68-12-2.

SECTION 3. - - - - - - - - - - HAZARDS IDENTIFICATION - - - - - - - - - -
LABEL PRECAUTIONARY STATEMENTS
TOXIC
MAY CAUSE CANCER.
HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
TARGET ORGAN(S):
KIDNEYS
LIVER
IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE
IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF
WATER AND SEEK MEDICAL ADVICE.
WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE
PROTECTION.
DO NOT BREATHE DUST.

SECTION 4. - - - - - - - - - FIRST-AID MEASURES- - - - - - - - - -
IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS
AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED
CLOTHING AND SHOES.
ASSURE ADEQUATE FLUSHING OF THE EYES BY SEPARATING THE EYELIDS
WITH FINGERS.
IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL
RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.
IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.
CALL A PHYSICIAN.
WASH CONTAMINATED CLOTHING BEFORE REUSE.
DISCARD CONTAMINATED SHOES.

SECTION 5. - - - - - - - - - FIRE FIGHTING MEASURES - - - - - - - - - -
EXISTING MEDIA
WATER SPRAY.
CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.
SPECIAL FIREFIGHTING PROCEDURES
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO
PREVENT CONTACT WITH SKIN AND EYES.
UNUSUAL FIRE AND EXPLOSIONS HAZARDS
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

SECTION 6. - - - - - - - - ACCIDENTAL RELEASE MEASURES- - - - - - - -
WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, RUBBER BOOTS AND HEAVY
RUBBER GLOVES.
Sweep up, place in a bag and hold for waste disposal.
Avoid raising dust.
Ventilate area and wash spill site after material pickup is complete.

SECTION 7. - - - - - - - - HANDLING AND STORAGE- - - - - - - -
Refer to Section 8.

SECTION 8. - - - - - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION- - - - - -
Wear appropriate NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT
GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.
Safety shower and eye bath.
Mechanical exhaust required.
Wash thoroughly after handling.

SECTION 9. - - - - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - - -
Appearance and Odor
Solid.

SECTION 10. - - - - - - - - STABILITY AND REACTIVITY - - - - - -
Stability
Stable.
Incompatibilities
Strong oxidizing agents
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
Thermal decomposition may produce carbon monoxide, carbon dioxide,
And nitrogen oxides.
Sulfur oxides
HAZARDOUS POLYMERIZATION
Will not occur.

SECTION 11. - - - - - - - - TOXICOLOGICAL INFORMATION - - - - - -
Acute Effects
Harmful if swallowed, inhaled, or absorbed through skin.
Causes eye and skin irritation.
Material is irritating to mucous membranes and upper respiratory tract.
Exposure may cause:
Stomach pains, vomiting, diarrhea.
Nausea, dizziness and headache.
The toxicological properties have not been thoroughly investigated.
Chronic Effects
Carcinogen.
Damage to the kidneys
Target Organ(s):
Kidneys
Liver

SECTION 12. - - - - - - - - ECOLOGICAL INFORMATION - - - - - -
Data not yet available.

SECTION 13. - - - - - - - - DISPOSAL CONSIDERATIONS - - - - - -
Dissolve or mix the material with a combustible solvent and burn in a
Chemical incinerator equipped with an afterburner and scrubber.
Observe all federal, state and local environmental regulations.

SECTION 14. - - - - - - - - TRANSPORT INFORMATION - - - - - -
Contact sigma chemical company for transportation information.

SECTION 15. - - - - - - - - REGULATORY INFORMATION - - - - - -
European Information
Caution: Substance not yet fully tested.
Toxic
R 45
May cause cancer.
R 20/21/22
HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
R 36/37/38
IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
S 45
IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).
S 26
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.
S 36/37/39
WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION.
S 22
DO NOT BREATHE DUST.

TLV AND SOURCE
FOR DIMETHYLFORMAMIDE (DMF):
ACGIH TLV-TWA: 10 PPM(30 MG/M3) - SKIN.
OSHA PEL: 8H TWA 10 PPM(30 MG/M3) - SKIN.

U.S. INFORMATION
MAY CONTAIN UP TO:
3.2% N,N-DIMETHYLFORMAMIDE  68-12-2
THIS PRODUCT IS SUBJECT TO SARA SECTION 313 REPORTING REQUIREMENTS.

SECTION 16. OTHER INFORMATION
THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. SIGMA, ALDRICH, FLUKA SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. SEE REVERSE SIDE OF INVOICE OR PACKING SLIP FOR ADDITIONAL TERMS AND CONDITIONS OF SALE.
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