



Clariant Corporation

4000 Monroe Road  
Charlotte, NC 28205  
704.331.7000

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Document Control Officer (TS 790)  
U.S. Environmental Protection Agency  
401 M St., S.W.  
Washington, DC 20460



8EHQ-99-14398

Z 538 946 677

Certified Mail Return Receipt Requested

Attention: TSCA 8(e) Coordinator

Dear Sir:

In accordance with Section 8(e) of the Toxic Substance Control Act (TSCA), Clariant Corporation is submitting the following information on 2-Hydroxy-1-naphthaldehyde, (CAS Number 708-06-5).

In aquatic toxicology tests conducted under OECD 203 guidelines, the LC50 at 48 and 96 hours for zebrafish was found to be 0.5 - 0.75 mg/L

This information was included in the Clariant GmbH MSDS, which is attached. This information has been added to the Clariant Corporation MSDS, also included.

This submission does not contain any confidential business information. If the agency would like further information, please contact me at the address below or by phone at (704) 331-7798.

Sincerely,

William N. Turner  
Product Safety Manager  
Fine Chemicals Division  
Clariant Corporation  
4000 Monroe Road  
Charlotte, NC 28205

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Cc: D. Lisman  
G. Pasek  
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CONTAINS NO OPI

## EC safety data sheet

Safety data sheet in accordance with 91/155/EEC

Trade name

2-Hydroxy-1-naphthaldehyd TTR

Product no. 6V GSTD155 Version : 3

Status

16.06.97

Substance code : 20266

Page :

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## 1. Identification of the substance/preparation and company

Product details

Trade name

2-Hydroxy-1-naphthaldehyd TTR

Supplier details

Clariant GmbH

D-65926 Frankfurt am Main

Telephone no. : ++49(0)69-305-18000

Information provided by

Division Fine Chemicals

Emergency telephone number : ++49(0)69-305-6418

## 2. Composition/information on ingredients

Chemical characterization

Oxynaphthaldehyd-2.1 TTR

CAS number : 708-06-5

UN number : 3077

EINECS number : 211-902-0

## 3. Hazards identification

Very toxic to aquatic organisms.

May cause long-term adverse effects in the aquatic environment.

## 4. First aid measures

General information

Remove soiled or soaked clothing immediately

After inhalation

By sufficient intake of Phenols through inhalation, provide medical treatment.

After contact with skin

Remove contaminated clothes, under clothes and shoes immediately. Rinse the skin thoroughly, at best use a mixture of Polyethylene glycol 300: Ethanol in the ratio of 2:1 (see Data sheet M 018 of BG Chemie)

Keep wounds covered free of germs. Keep body calm, protect against loss of heat. Start medical treatment immediately

After contact with eyes

Rinse the affected eye immediately with plenty of water at the same time keep the unaffected eye well protected. Eye treatment by an Oculist

## EC safety data sheet

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2-Hydroxy-1-naphthaldehyd TTR  
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## After ingestion

Provide for plenty of water to be drunk in small gulps (Dilution effect). Additionally medical charcoal tablets should be given (1 Spoon of Medical charcoal suspension in a glass of water).  
Provide for body rest, protect against loss of heat.  
Medical treatment.

## Hints for the physician

## Treatment

After decontamination of the skin, treat against pain and shock prophylaxis.

Depending on the presumable intake amount of "Phenol", a 4 to 8 hour control of the beginning of adverse effects on the central nervous system, the blood circulation system, the liver and kidneys with Haematurie, Proteinurie, Oligurie, later Anurie and Uraemie is of importance.

## 5. Fire-fighting measures

Suitable extinguishing media  
water spray jet  
foam

Special hazards from the substance itself, its combustion products or from its vapours

In case of fires, hazardous combustion gases are formed: Carbon monoxide (CO)

Special protective equipment for firefighting  
In case of fire, wear respiratory protection

## 6. Accidental release measures

Methods for cleaning up/taking up

Take up with suitable equipment and if necessary collect in closed containers

Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations

When picked up, treat material as prescribed under heading "Disposal".  
Containers in which spilt substance has been collected must be adequately labelled

## 7. Handling and storage

## Handling

Advice on protection against fire and explosion  
The product is combustible.

Dust explosion class : ST2  
Capable of dust explosion

**EC safety data sheet**

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**Storage**

 Further information on storage conditions  
 Keep container tightly closed

**8. Exposure controls/personal protection**
**Personal protective equipment**
**General protective measures**

 Do not inhale dust  
 Avoid contact with eyes and skin

**Hygiene measures**

 Keep away from foodstuffs and beverages.  
 Wash hands before breaks and after work.

Hand protection : Protective gloves

Eye protection : safety glasses/face shield

**9. Physical and chemical properties**
**Appearance**

 Form : solid  
 Colour : dark yellow

**Data relevant to safety**
**Changes in physical state**

Melting point 78 °C

Self-ignition temperature : &gt; 400 °C

 Bulk density : 830 kg/m<sup>3</sup>

Solubility in water : approx. 40 mg/l

**Solubility/qualitative :**

soluble in ethanol and diethyl ether

 pH value :  
 neutral

 Impact sensitivity :  
 Not impact-sensitive

 Combustion number : B22  
 Short flaring up without spreading

## EC safety data sheet

Safety data sheet in accordance with 91/155/EEC

Trade name  
2-Hydroxy-1-naphthaldehyd TTR  
Product no. 6V GSTD155 Version : 3  
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## 10. Stability and reactivity

Thermal decomposition : > 400 °C  
Method : Test-cube method

## 11. Toxicological information

Acute oral toxicity : ( LD<sub>50</sub> ) > 5000 mg/kg  
Species : rat  
Method : OECD 401  
Source : Investigation HoechstIrritant effect on skin :  
non-irritant  
Species : rabbit  
Method : OECD 404  
Source : Investigation HoechstIrritant effect on eyes :  
non-irritant  
Species : rabbit eye  
Method : OECD 405  
Source : Investigation Hoechst

## 12. Ecological information

Data on elimination ( persistence and degradability ) :

Ready degradability : 65 %  
Duration of test 28 d  
Method : OECD 301 F  
Source : Investigation Hoechst

## Ecotoxic effect

Fish toxicity : ( LC<sub>50</sub> )  
0.5 to 0.75 mg/l  
Duration of exposure 48 h  
Species : zebra fish  
Method : OECD 203  
Source : Investigation HoechstFish toxicity : ( LC<sub>50</sub> )  
0.5 to 0.75 mg/l  
Duration of exposure 96 h  
Species : zebra fish  
Method : OECD 203  
Source : Investigation Hoechst

# EC safety data sheet

Safety data sheet in accordance with 91/155/EEC

Trade name	2-Hydroxy-1-naphthaldehyd TTR	Status	16.06.97
Product no.	6V GSTD155	Version :	3
Substance code :	20266	Page :	5(6)

Bacteria toxicity : ( EC<sub>0</sub> ) > 40 mg/l  
 Duration of exposure 24 h  
 Method : fermentation tube test  
 Source : Investigation Hoechst

### 13. Disposal considerations

Product Special waste incineration plant, after consultation with operators

### \* 14. Transport information

Road transport  
 ADR 9 / 12 C  
 Product characteristic  
 3077 UMWELTGEFAEHRDENDER STOFF, FEST, N.A.G. (OXYNAPHTHALDEHYD-2.1)  
 Hazard no. : 90 Substance number 3077

RID 9 / 12 C  
 Product characteristic  
 3077 UMWELTGEFAEHRDENDER STOFF, FEST, N.A.G. (OXYNAPHTHALDEHYD-2.1)  
 Hazard no. : 90 Substance number 3077

Inland waterways transport  
 ADNR 9 / 12 C  
 Product characteristic  
 3077 UMWELTGEFAEHRDENDER STOFF, FEST, N.A.G. (OXYNAPHTHALDEHYD-2.1)

Marine transport IMDG/UN Non-hazardous goods

Air transport  
 ICAO/IATA-DGR 9 / 3077 / III  
 Correct technical name  
 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (OXYNA  
 PHTHALDEHYD-2.1)

Dispatch by post Not permitted.

### 15. Regulatory information

Labelling in accordance with GefStoffV/EC hazard warning labelling compulsory

Hazard symbols N Dangerous for the environment

R phrases  
 50 Very toxic to aquatic organisms.  
 53 May cause long-term adverse effects in the aquatic environment.

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This material and its container must be disposed of as hazardous waste.

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Avoid release to the environment. Refer to special instructions/Safety data sheets.

National regulations :

Water Hazard Class (Ger.) : 1 ( self-classification )

## Other information

This information is based on our present state of knowledge. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application.

Chapter which has been changed in respect of its previous version is marked with '\*'.

Date of printing : 05 03.99

CLARIANT CORPORATION  
4000 MONROE ROAD  
CHARLOTTE, N.C. 28205

2-HYDROXY-1-NAPHTHALDEHYDE  
200350                      VERSION: 01 REVISED DATE: 03/01/1999

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For Chemical Emergency  
Call CHEMTREC - Day or Night  
1-800-424-9300

For MSDS Info: (704) 331-7710  
CLARIANT Corporation: (704) 331-7000

B TURNER

----- H M I S -----  
HEALTH 1  
FLAMMABILITY 0  
REACTIVITY 0  
PERSONAL PROTECTION B

-----  
SECTION 01 - PRODUCT IDENTIFICATION  
-----

TRADE NAME: 2-HYDROXY-1-NAPHTHALDEHYDE  
PRODUCT CODE: 200350  
VERSION NUMBER: 01  
ALPHA CODE: NOT AVAILABLE  
CAS NUMBER: 708-06-5  
SYNONYMS: BETA-HYDROXY-ALPHA-NAPHTHALDEHYDE  
1-FORMYL-2-HYDROXYNAPHTHALENE  
CHEMICAL FAMILY: AROMATIC ALDEHYDE  
FORMULA: C<sub>11</sub>H<sub>8</sub>O<sub>2</sub>  
PRIMARY PRODUCT USE: CHEMICAL MANUFACTURING

-----  
SECTION 02 - COMPOSITION INFORMATION ON HAZARDOUS INGREDIENTS  
-----

COMPONENT	CAS NO.	WT. %	PEL/TLV
NONE UNDER 29 CFR 1910.1200			
NONE UNDER TITLE III OF SARA			
NONE UNDER CANADIAN HAZARDOUS PRODUCTS ACT (WHMIS)			

-----  
SECTION 03 - HAZARDS IDENTIFICATION  
-----

(REFER TO SECTION 11 FOR ADDITIONAL INFORMATION)  
EXPECTED ROUTE OF ENTRY:

SKIN CONTACT:  
SKIN ABSORPTION:  
EYE CONTACT:  
INHALATION:  
INGESTION:

EFFECTS OF EXPOSURE:

2-HYDROXY-1-NAPHTHALDEHYDE IS NON TOXIC IN THE RAT MODEL AND NON-IRRITATING TO THE SKIN AND EYES IN THE RABBIT MODEL, HOWEVER, IT IS VERY TOXIC TO FISH, HAVING AN LC50 OF 0.5-0.75 MG/L IN ZEBRAFISH. CARE SHOULD BE TAKEN TO PREVENT RELEASE OF THIS SUBSTANCE INTO WATERWAYS.

KNOWN EFFECTS ON OTHER ILLNESSES:

NO KNOWN EFFECTS ON OTHER ILLNESSES FOR THIS PRODUCT.

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-----  
SECTION 03 - HAZARDS IDENTIFICATION

(CONT.)

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LISTED CARCINOGEN:

NONE: X  
OSHA:  
NTP:  
IARC:  
OTHER:

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SECTION 04 - FIRST AID MEASURES-----  
FIRST AID FOR EYES:

FLUSH IMMEDIATELY UNDER RUNNING WATER FOR FIFTEEN MINUTES. SEEK MEDICAL ATTENTION.

## FIRST AID FOR SKIN:

WASH THOROUGHLY WITH SOAP AND WATER FOR 15 MINUTES. IF SKIN IRRITATION OCCURS, SEEK MEDICAL ATTENTION.

## FIRST AID FOR INHALATION:

GET VICTIM TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION OR OXYGEN IF BREATHING HAS STOPPED. GET PROMPT MEDICAL ATTENTION. DO NOT GIVE FLUIDS IF VICTIM IS UNCONSCIOUS.

## FIRST AID FOR INGESTION:

IF INGESTED, SEEK MEDICAL ASSISTANCE.

## NOTE TO PHYSICIAN:

NONE KNOWN

-----  
SECTION 05 - FIRE FIGHTING MEASURES

FLASH POINT ('F): NOT APPL.

## FLAMMABLE LIMITS:

LEL: UNKNOWN  
UEL: UNKNOWN

AUTOIGNITION TEMPERATURE ('F): >752 (>400°C)

## HAZARDOUS COMBUSTION PRODUCTS:

THERMAL DECOMPOSITION MAY PRODUCE OXIDES OF CARBON, NITROGEN AND SULFUR.

## EXTINGUISHING MEDIA:

WATER: X  
ALCOHOL FOAM: X  
CO2:

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SECTION 05 - FIRE FIGHTING MEASURES

(CONT.)

-----  
DRY CHEMICAL:  
WATER/FOG SPRAY:  
NO EXTINGUISHING MEDIA:

## SPECIAL FIRE FIGHTING PROCEDURES:

IN THE EVENT OF A FIRE, WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE. USE ANY MEANS SUITABLE FOR EXTINGUISHING SURROUNDING FIRE. WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL.

## UNUSUAL FIRE AND EXPLOSION HAZARDS:

EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

-----  
SECTION 06 - ACCIDENTAL RELEASE MEASURES

## STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK:

CONTAIN SPILL. SMALL SPILLS MAY BE FLUSHED TO THE SEWER OR ABSORBED ON SUITABLE ABSORBANTS. LARGER SPILLS SHOULD BE COLLECTED AS LIQUID OR ABSORBED. CLEAN UP MAY BE ACCOMPLISHED BY FLUSHING WITH WATER IF APPROPRIATE OR REMOVE CONTAMINATED SOILS. PLACE IN APPROPRIATE CONTAINERS.

-----  
SECTION 07 - HANDLING AND STORAGE

## HANDLING AND STORAGE INFORMATION:

KEEP CONTAINERS CLOSED. AVOID GETTING ON SKIN OR IN EYES WHEN HANDLING PRODUCT.

-----  
SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

## RESPIRATORY PROTECTION:

NONE REQUIRED IN NORMAL USE OF PRODUCT.

## PROTECTIVE GLOVES:

BUTYL RUBBER, PVC OR NEOPRENE

## EYE PROTECTION:

SAFETY GLASSES OR CHEMICAL SPLASH GOGGLES

## OTHER PROTECTIVE EQUIPMENT:

WEAR CLOTHING SUITABLE TO PREVENT SKIN CONTACT. HAVE EYEWASH FOUNTAIN AND SAFETY SHOWER AVAILABLE IN THE WORK AREA.

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-----  
SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION (CONT.)  
-----

## VENTILATION:

LOCAL VENTILATION RECOMMENDED - MECHANICAL VENTILATION MAY BE USED.

EXPOSURE LIMITS: NONE ON PRODUCT

IDLH (IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONCENTRATION):  
NOT DETERMINED

-----  
SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES  
-----

APPEARANCE AND ODOR: DARK YELLOW SOLID

ODOR THRESHOLD: NOT AVAILABLE

PH ( % IN WATER): NEUTRAL

SOLUBILITY IN WATER: 40 MG/L

SPECIFIC GRAVITY: NOT AVAILABLE

BOILING POINT ('F): NOT AVAILABLE

MELTING POINT ('F): 172 (78'C)

FREEZING POINT ('F): NOT AVAILABLE

VAPOR PRESSURE (MM HG): NOT AVAILABLE

VAPOR DENSITY (AIR=1): NOT AVAILABLE

EVAPORATION RATE: NOT AVAILABLE

LOSS ON DRYING(%): NOT AVAILABLE

VOC (EPA METHOD 24/24A): NOT AVAILABLE

OCTANOL/WATER PARTITION COEFFICIENT: NO DATA AVAILABLE

## OTHER PHYSICAL AND CHEMICAL PROPERTIES:

BULK DENSITY: 830 KG/M3

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SECTION 10 - STABILITY AND REACTIVITY  
-----

STABILITY: STABLE

CONDITIONS TO AVOID: NONE

HAZARDOUS POLYMERIZATION WILL NOT OCCUR

CONDITIONS TO AVOID: NONE KNOWN

INCOMPATIBILITY: NONE KNOWN

-----  
SECTION 11 - TOXICOLOGICAL INFORMATION  
-----

LD50 (ORAL-RAT): &gt; 5000 MG/KG BODY WEIGHT

DERMAL IRRITATION-RABBIT: NON-IRRITATING

EYE IRRITATION-RABBIT: NON-IRRITATING

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SECTION 11 - TOXICOLOGICAL INFORMATION  
-----

(CONT.)

OTHER TOXICOLOGICAL VALUES:

2-HYDROXY-1-NAPHTHALDEHYDE IS VERY TOXIC TO FISH, HAVING AN LC50 IN ZEBRAFISH OF 0.5-0.75 MG/L (OECD 203 METHOD). DO NOT ALLOW TO ENTER WATERWAYS AND CONTAIN FIRE FIGHTING RUN-OFF.

-----  
SECTION 12 - ECOLOGICAL INFORMATION  
-----

BIOLOGICAL ELIMINATION:

65 % ANALYSIS: METHOD: OECD NO. 301 F

AQUATIC TOXICITY:

SPECIES: NONE	LC100: NONE	MG/L	TIME:	H
SPECIES: ZEBRA FISH	LC 50: 0.5-0.75	MG/L	TIME:	H
SPECIES: NONE	LC 0: NONE	MG/L	TIME:	H

LC50 FOR BOTH 48 HR AND 96 HR TESTS

BACTERIAL INHIBITION:

NO INHIBITION (MG/L): > 40  
50% INHIBITION (MG/L): NOT DETERMINED  
FERMENTATION TUBE TEST

BIOCHEMICAL OXYGEN DEMAND (BOD5-MG/L): NOT AVAILABLE  
CHEMICAL OXYGEN DEMAND (COD-MG/L): NOT AVAILABLE

-----  
SECTION 13 - DISPOSAL CONSIDERATIONS  
-----

WASTE DISPOSAL INFORMATION:

SMALL QUANTITIES MAY BE TREATED IN AEROBIC WASTEWATER TREATMENT SYSTEMS.  
LARGER QUANTITIES MAY BE INCINERATED OR LANDFILLED AFTER SOLIDIFICATION IN PERMITTED SYSTEMS.

RCRA HAZARDOUS WASTE: NO - NOT AS SOLD.  
RCRA #: NONE

FOLLOW ALL LOCAL, STATE, AND FEDERAL REGULATIONS

-----  
SECTION 14 - TRANSPORT INFORMATION  
-----

DOT REGULATED: YES  
RQ MET AT: NONE  
UN/NA NUMBER : UN3077  
PACKING GROUP: III



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-----  
SECTION 15 - REGULATORY INFORMATION

(CONT.)

-----  
CERCLA (FOR COMPONENTS LISTED IN SECTION 2): NO  
LOWEST RQ: NONE

RCRA HAZARDOUS WASTE: NO - NOT AS SOLD.  
RCRA #: NONE

FDA: THIS PRODUCT IS NOT REGISTERED WITH THE FDA

USDA: THIS PRODUCT IS NOT REGISTERED WITH THE USDA

CEPA: LISTED AS PRIORITY SUBSTANCE: NOT DETERMINED  
LISTED AS TOXIC SUBSTANCE: NOT DETERMINED  
EXPORT IS NOTIFIABLE: NOT DETERMINED  
LISTED ON DSL: NO  
LISTED ON NDSL: NO  
CEPA STATUS:  
PRODUCT NOT YET EVALUATED

WHMIS: NOT EVALUATED

-----  
SECTION 16 - OTHER INFORMATION

-----  
OTHER PRECAUTIONS:

NONE KNOWN

STATE REGULATORY INFORMATION:

PENNSYLVANIA: NON-HAZARDOUS COMPONENTS BEING WITHHELD AS TRADE SECRET  
INFORMATION.

MASSACHUSETTS: ANY COMPONENT OF THIS PRODUCT WHICH IS A HAZARDOUS CHEMICAL  
AS LISTED IN THE MASSACHUSETTS SUBSTANCE LIST IS SHOWN  
ABOVE IN SECTION 2 OF THIS MSDS. NON-HAZARDOUS COMPONENTS  
ARE BEING WITHHELD AS TRADE SECRET INFORMATION.

LABEL INFORMATION:

LABEL HAZARDS:

ATTENTION!

UPON EVALUATION, IT HAS BEEN DETERMINED THAT THIS PRODUCT IS NOT SUBJECT TO  
THE LABELING REQUIREMENTS OF THE OSHA HAZARD COMMUNICATION STANDARD,  
29CFR1910.1200. HOWEVER, GOOD WORK PRACTICES DICTATE THAT CARE BE TAKEN TO  
AVOID SKIN AND EYE CONTACT AND INGESTION. WASHING AFTER HANDLING IS  
ADVISED.

LABEL PRECAUTIONS:

M A T E R I A L   S A F E T Y   D A T A   S H E E T



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-----  
SECTION 16 - OTHER INFORMATION

(CONT.)

-----  
NONE

EYE CONTACT: FLUSH WITH WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. SEEK IMMEDIATE MEDICAL ATTENTION.

SKIN CONTACT: FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. SEEK MEDICAL ATTENTION.

INHALATION: REMOVE SUBJECT TO FRESH AIR. SEEK MEDICAL ASSISTANCE.

INGESTION: IF CONSCIOUS, GIVE THE PATIENT 1-2 GLASSES OF WATER (8-16 OZ.) SEEK MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. INDUCE VOMITING ONLY AT THE INSTRUCTIONS OF A DOCTOR OR NURSE.

-----  
IN ACCORDANCE WITH GOOD PRACTICES OF PERSONAL CLEANLINESS AND HYGIENE, HANDLE WITH DUE CARE AND AVOID UNNECESSARY CONTACT WITH THIS PRODUCT.

THIS INFORMATION IS BEING SUPPLIED TO YOU UNDER OSHA "RIGHT TO KNOW" REGULATION 29 CFR 1910.1200 AND IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE TO US AND IS BELIEVED TO BE TRUE AND ACCURATE.

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