

Sartomer Company

Material Safety Data Sheet

Product: CD406
MSDS ID: S-000440

Revised Date: 06-09-2005
Replaces Date: 01-17-2005

01. GENERAL INFORMATION

Sartomer Company, Inc.
Oaklands Corporate Center
502 Thomas Jones Way
Exton, Pennsylvania 19341

Emergency phone numbers:
800/424-9300 (CHEMTREC)
610/692-8401 (Sartomer Co., Inc.)
Product information:
610/363-4100

GENERIC NAME
Cyclohexane Dimethanol Diacrylate

DOT PROPER SHIPPING NAME
N/AP
DOT HAZARD CLASS
Not regulated

UN/NA NUMBER
N/AP

02. SUMMARY OF HAZARDS

WARNING

PHYSICAL HAZARDS: Unstable (reactive) upon depletion of inhibitor

ACUTE HEALTH EFFECTS: Suspect eye irritation hazard
(SHORT-TERM) Suspect skin irritation/sensitization hazard
Suspect respiratory tract irritation hazard
Suspect skin absorption hazard
Suspect slight ingestion hazard

CHRONIC HEALTH EFFECTS: No chronic health effects data are available for
(LONG-TERM) this material.

03. COMPONENTS

COMPONENT NAME	CAS NUMBER	% COMPOSITION (BY WT.)
Cyclohexane Dimethanol Diacrylate Esters	67905-41-3	AP 100

04. PHYSICAL AND CHEMICAL DATA

BOILING POINT	pH
N/DA	AP 6.8 to 7.2
MELTING POINT	DRY POINT
82C/180F	N/DA
SPECIFIC GRAVITY (H2O=1 at 39.2F)	VOLATILE CHARACTERISTICS
N/AP	Negligible
VISCOSITY UNITS, TEMP. (Brookfield)	SOLUBILITY IN WATER
N/AP	Negligible
VAPOR PRESSURE	STABILITY

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N/DA	Stable
VAPOR SP GR (AIR=1 at 60 - 90F)	HAZARDOUS POLYMERIZATION
N/DA	May occur

APPEARANCE AND ODOR

Waxy white solid at room temperature

CONDITIONS AND MATERIALS TO AVOID

High temperatures, localized heat sources (ie, drum or band heaters), oxidizing conditions, direct sunlight, ultraviolet radiation, inert gas blanketing;

Strong oxidizers, strong reducers, free radical initiators, inert gases, oxygen scavengers

HAZARDOUS DECOMPOSITION PRODUCTS

Acrid smoke-fumes/carbon monoxide/carbon dioxide and perhaps other toxic vapors may be released during a fire involving this product.

05. OCCUPATIONAL EXPOSURE LIMITS

SUBSTANCE	SOURCE	DATE	TYPE	VALUE	TIME
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A PEL or TLV has not been established

06. FIRE AND EXPLOSION

FLASH POINT METHOD=(Estimated)	AUTOIGNITION TEMP. METHOD=
GT 93C/200F	N/DA

FLAMMABLE LIMITS (% VOLUME IN AIR)

LOWER: N/DA UPPER: N/DA

FIRE AND EXPLOSION HAZARDS

High temperatures, inhibitor depletion, accidental impurities, or exposure to radiation or oxidizers may cause spontaneous polymerizing reaction generating heat/pressure. Closed containers may rupture or explode during runaway polymerization.

EXTINGUISHING MEDIA

Dry chemical
CO2
Water spray
Foam
Water fog

SPECIAL FIREFIGHTING PROCEDURES

Do not enter fire area without proper protection. See Section 4 - decomposition products possible. Fight fire from safe distance/protected location. Heat/impurities may increase temperature/build pressure/rupture closed containers, spreading fire, increasing risk of burns/injuries. Water may be ineffective in firefighting due to low solubility. Use water spray/fog for cooling. Pressure relief system may plug with solids,

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increasing risk of overpressure. Notify authorities if liquid enters sewer/public waters.

07. HEALTH HAZARDS

ROUTES OF EXPOSURE

INHALATION

No significant signs or symptoms indicative of any adverse health effects are expected to occur at standard conditions. However, aerosols or vapors which may be generated during processing may cause respiratory tract irritation. Symptoms of irritation may include sore throat, coughing, mucous production, and shortness of breath.

EYE CONTACT -- PRIMARY ROUTE

Although no appropriate human or animal health effects data are known to exist, this material is expected to cause eye irritation.

Symptoms may include pain or burning sensation, redness, tearing, excessive blinking and swelling.

SKIN ABSORPTION -- PRIMARY ROUTE

Although no appropriate human or animal health effects data are known to exist, this material is expected to be a health hazard by skin absorption.

SKIN IRRITATION -- PRIMARY ROUTE

Although no appropriate human or animal health effects data are known to exist, this material is expected to be a skin irritant.

Symptoms of irritation may include localized redness or rash and swelling of the affected area. Symptoms may be delayed.

Although no appropriate human or animal health effects data is known to exist, this material may cause an allergic skin reaction (sensitization) in susceptible individuals upon repeated exposure.

INGESTION

Although no appropriate human or animal health effects data are known to exist, this material is expected to be a slight ingestion hazard.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

No additional medical information found.

08. PROTECTIVE EQUIPMENT / CONTROL MEASURES

RESPIRATORY PROTECTION

If this material is handled at elevated temperature or under mist forming conditions, NIOSH/MSHA approved respiratory protection equipment should be used.

EYE PROTECTION

Eye protection such as chemical splash goggles and/or face shield must be worn when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapor. Contact lenses should not be worn.

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SKIN PROTECTION

When skin contact is possible, protective clothing including gloves, apron, sleeves, boots, head and face protection should be worn. This equipment must be cleaned thoroughly after each use.

ENGINEERING CONTROLS

If handling results in aerosol or vapor generation, local exhaust ventilation is recommended.

OTHER HYGIENIC PRACTICES

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

OTHER WORK PRACTICES

Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing/wash thoroughly before reuse. Shower after work using plenty of soap and water.

09. EMERGENCY AND FIRST AID

INHALATION

If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.

EYE CONTACT

In case of eye contact, immediately rinse with clean water for 20-30 minutes. Retract eyelids often. Obtain emergency medical attention.

SKIN CONTACT

Immediately remove contaminated clothing. Wash skin thoroughly with mild soap/water. Flush w/lukewarm water for 15 minutes. If sticky, use waterless cleaner first. Seek medical attention if ill effect or irritation develops.

INGESTION

If large quantity swallowed, give lukewarm water (pint) if victim completely conscious/alert. Do not induce vomiting/risk of damage to lungs exceeds poisoning risk. Obtain emergency medical attention.

EMERGENCY MEDICAL TREATMENT PROCEDURES

Treat symptomatically.

10. SPILL AND DISPOSAL

PRECAUTIONS IF MATERIAL IS SPILLED OR RELEASED

Spilled or released material may polymerize and release heat/gases. Extinguish all ignition sources and ventilate area. Wear protective equipment during clean-up. Dike and recover large spill. Soak up small spill with inert solids (such as vermiculite, clay) and sweep/shovel into vented disposal container. Wash spill area with a strong detergent and water solution; rinse with water but minimize water use during clean-up. For

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spills on water, contain, minimize dispersion and collect. Dispose/report per regulatory requirements.

WASTE DISPOSAL METHODS

Non-contaminated, properly inhibited product is not a RCRA hazardous waste. However, contaminated product/soil/water may be RCRA/OSHA hazardous waste due to potential for internal heat generation (see 40 CFR 261 and 29 CFR 1910). It is the responsibility of the generator to determine at the time of disposal whether the product meets the criteria of a hazardous waste. Comply with all applicable federal, state and local regulations. Use registered transporters. Disposal options include landfilling solids at permitted sites; fuel blending or incinerating liquids. Assure emissions comply with applicable regulations. Dilute aqueous waste may biodegrade; avoid overloading/poisoning plant biomass. Assure effluent complies with applicable regulations.

11. ADDITIONAL PRECAUTIONS

HANDLING AND STORAGE PROCEDURES

This material is supplied as a solid. To facilitate product transfer from original container, container may be heated to 90C/194F for not more than 24 hours. Do NOT use localized heat sources such as band heaters to heat/melt product. Do NOT use steam. Hot boxes or hot rooms are recommended for heating/melting material. The hot box or hot room should be set at a maximum temperature of 90C/194F. Do not overheat--this may compromise product quality and/or result in an uncontrolled hazardous polymerization. Check product before use/processing to ensure it is thoroughly and completely melted. Gently mixing may be required. Product must be completely melted and in a homogeneous state prior to use. Product should be consumed in its entirety after heating/melting--avoid multiple "re-heats" which may affect product quality or result in product degradation. Product is packaged with inhibitor(s). Unless inhibited, product can polymerize, raising temperature and pressure possibly rupturing container. Check inhibitor content periodically, adding to bulk material if needed. In addition, the product's inhibitor(s) require the presence of dissolved oxygen. Maintain, at a minimum, the original headspace in the product container and do not blanket or mix with oxygen-free gas as it renders inhibitor ineffective. Store product indoors at temperatures greater than 10C/50F and below 38C/100F. Avoid prolonged (longer than shelf-life) storage temperatures above 38C/100F. Store in tightly closed containers in a properly vented storage area away from: heat, sparks, open flame, strong oxidizers, radiation, and other initiators. Prevent contamination by foreign materials. Prevent moisture contact. Use only non-sparking tools and limit storage time. Shelf-life is 6 months from receipt of product.

DECONTAMINATION PROCEDURES

Follow standard plant procedures or supervisor's instructions for decontamination operations.

12. LABEL INFORMATION

USE STATEMENT

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FOR INDUSTRIAL USE ONLY
SIGNAL WORD
WARNING
PHYSICAL HAZARDS
UNSTABLE (REACTIVE) UPON LOSS OF INHIBITOR
HEALTH HAZARDS
MAY CAUSE EYE AND SKIN IRRITATION
MAY CAUSE ALLERGIC SKIN REACTION
PRECAUTIONARY MEASURES
HAZARDOUS POLYMERIZATION MAY OCCUR UPON DEPLETION OF INHIBITOR.
DO NOT HANDLE NEAR HEAT, SPARKS, OR OPEN FLAME.
AVOID CONTACT WITH EYES, SKIN AND CLOTHING.
AVOID BREATHING VAPORS/AEROSOLS.
USE ONLY WITH ADEQUATE VENTILATION/PERSONAL PROTECTION.
WASH THOROUGHLY AFTER HANDLING.
KEEP CONTAINER CLOSED WHEN NOT IN USE.
BEFORE USING PRODUCT, READ MATERIAL SAFETY DATA SHEET (MSDS).

13. SUPPLEMENT

NPCA HMIS RATING

Health	2
Flammability	1
Reactivity	2
Personal Protection**	D

**Respiratory protection may be necessary depending on conditions of use.

REGULATORY INFORMATION

TSCA STATUS

TSCA status: All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

CALIFORNIA PROPOSITION 65

California Proposition 65 Information: This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity.

INTERNATIONAL STATUS

Australia (AICS):	not included on inventory
Canada (DSL):	included on NDSL
China (CECS):	not included on inventory
Europe (EINECS):	included on inventory
Japan (ENCS):	not included on inventory
Korea (ECL):	not included on inventory
Philippines (PICCS):	not included on inventory

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This material contains an inhibitor (HQ, MEHQ, etc.) at <1%. The type and amount meet product specifications. Contact a company representative for exact concentrations and details on inhibitor level maintenance.

*Note - qualifiers and codes used in this MSDS

EQ = Equal; AP = Approximately; LT = Less Than; GT = Greater Than;
TR = Trace; UK = Unknown; N/AP = Not Applicable; N/P = No Applicable
Information Found; N/DA = No Data Available

14. DISCLAIMERS

Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable. This MSDS has been prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200).