



1. PRODUCT & COMPANY IDENTIFICATION

Recommended use of the chemical and restriction on use

Recommended use: Polyurethane component industrial chemicals
 Suitable for use in industrial sector: Polymers industry; chemical industry

Company

SASE Company Inc.
 2475 Stock Creek Blvd.
 Rockford, TN 37853

Phone: 1800-522-2606

Fax: 865.745.4110

www.sasecompany.com

Emergency Telephone Number: Call INFOTRAC Day or Night, Within USA or Canada 800.535.5053
Use only for hazardous materials (or dangerous goods) incident - spill, leak, fire, exposure, or accident.

2. HAZARDS IDENTIFICATION

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

Aspiration hazard	1	Aspiration hazard
Respiratory or skin sensitization	1 (Skin)	Respiratory or skin sensitization
Carc.	2	Carcinogenicity
Eye Dam./Irrit.	2B	Serious Eye Damage/Eye Irritation
STOTSE	3	Specific target organ toxicity - Single exposure
Flammable Liquids	4	Flammable Liquids
Acute Tox.	4 (Oral)	Acute toxicity

Label elements

Pictograms:



Signal Word:
DANGER

Hazard Statements:

H304	May be fatal if swallowed and enters airways
H317	May cause an allergic skin reaction
H351	Suspected of causing cancer
H320	Causes eye irritation
H336	May cause drowsiness or dizziness
H227	Combustible liquid
H302	Harmful if swallowed

Precautionary Statements (Prevention):

P210 Keep away from heat, hot surfaces, sparks, open flames.
P273 Avoid release to the environment.
P280 Wear protective gloves.
P281 Use personal protective equipment as required.

Precautionary Statements (Response):

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Precautionary Statements (Storage):

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Precautionary Statements (Disposal):

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified**Route of Entry:**

Eyes; Ingestion; Inhalation; Skin;

Target Organs:

Eyes; Skin; Respiratory system;

Inhalation:

Heating, spraying, foaming or otherwise mechanically dispersing operations may generate vapor or aerosol concentrations sufficient to cause irritation or other adverse effects. Minimal respiratory tract irritation may occur with exposure to a large amount of material.

Skin Contact:

Prolonged or repeated exposure can cause skin irritation or dermatitis in some individuals.

Eye Contact:

May cause watering of the eye and irritation of the conjunctiva.

3. COMPOSITION / INFORMATION ON INGREDIENTS**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

<u>Cas Number</u>	<u>Content %</u>	<u>Chemical Name</u>
102-60-3	20-40%	2-Propanol, 1,1',1",1'''-(1,2-ethanediyldinitrilo)tetrakis-
64742-94-5	50-70%	Solvent Naphtha (Petroleum)
91-20-3	0-7%	Naphthalene

4. FIRST AID MEASURES**Inhalation:**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility immediately.

Skin Contact:

Remove all contaminated clothing and shoes. Wash skin with large quantities of water and soap. Wash clothing before wearing again and clean shoes. If redness, itching or a burning sensation develops or persists after the area is washed, consult a physician.

Eye Contact:

Flush with large amounts of water for 15 minutes. Use fingers to assure that the eyelids are separated and that the eye is being irrigated. Get immediate medical attention.

Ingestion:

If swallowed, do not induce vomiting unless directed to do so by medical personnel. This material is an aspiration hazard. Never give anything by mouth to an unconscious person. Seek medical attention.

5. FIRE-FIGHTING MEASURES

Flash Point: >150°F

Flash Point Method: COC

Dry powder, foam, carbon dioxide. Use cold water spray to cool fire exposed containers to minimize risk of rupture. A solid stream of water directed into hot burning liquid could cause frothing. If possible, contain fire run off.

6. ACCIDENTAL RELEASE MEASURES**Spill:**

Remove all sources of flames, heating elements, gas engines, etc. Emergency clean-up personnel should wear chemical goggles, rubber or plastic gloves and clothing as required to protect against contact. Prevent spreading and contamination of surface waters and drinking supplies. Notify local health officials and other appropriate agencies if such contamination should occur.

Clean up:

With adequate ventilation and appropriate personal protective equipment, cover the area with an inert absorbent material such as clay or vermiculite and transfer to steel waste containers. Ventilate area to remove the remaining vapors.

7. HANDLING & STORAGE**Handling Precautions:**

Do not smoke or use naked lights, open flames, space heaters or other ignition sources near pouring, frothing or spraying operations. If contamination with isocyanates is suspected, do not reseal containers. Special Emphasis for spray applications of mixed products containing isocyanates: Inspect the application area for potential to expose other persons or for overspray to drift onto buildings, vehicles or other property. When spraying building exteriors, persons entering or exiting the building as well as those inside could be exposed to polyisocyanates due to wind conditions, open windows or air intakes. Do not begin application work until these potential problems have been corrected.

Storage Requirements:

When stored between 60°-85° F in sealed containers, typical shelf life is 12 months or more from the date of manufacture. Open containers must be handled properly to prevent moisture pickup.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION**Engineering Controls:**

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All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Uses requiring heating and/or spraying may require more aggressive engineering controls or PPE

Personal Protective Equipment:

HMIS PP, X | Consult your supervisor for special instructions

Personal protective equipment

Respiratory protection:

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Splash contact Material: Nitrile rubber Minimum layer thickness: 0.4 mm Break through time: 120 min Material tested: Camatril (KCL 730 / Aldrich Z677442, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Eye protection:

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection:

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

2-Propanol, 1,1',1",1'''-(1,2-ethanediyldinitriilo)tetrakis- cas#:(102-60-3) [20-40%]

Naphthalene cas#:(91-20-3) [0-7%]

Components with workplace control parameters

TWA 10 ppm USA. ACGIH Threshold Limit Values (TLV)

Eye & Upper Respiratory Tract irritation Hematologic effects Eye damage Not classifiable as a human carcinogen Danger of cutaneous absorption

STEL 15 ppm USA. ACGIH Threshold Limit Values (TLV)

Eye & Upper Respiratory Tract irritation Hematologic effects Eye damage Not classifiable as a human carcinogen Danger of cutaneous absorption

TWA	10 ppm 50 mg/m ³	USA. OSHA - TABLE Z-1 Limits for Air Contaminants – 1910.1000
STEL	15 ppm 75 mg/m ³	USA. OSHA - TABLE Z-1 Limits for Air Contaminants – 1910.1000
TWA	10 ppm 50 mg/m ³	USA. Occupational Exposure Limits (OSHA) - Table Z- 1 Limits for Air Contaminants

The value in mg/m³ is approximate.

TWA	10 ppm Exposure Limits 50 mg/m ³	USA. NIOSH Recommended
ST	15 ppm Limits 75 mg/m ³	USA. NIOSH Recommended Exposure

1,2,4-Trimethylbenzene cas#:(95-63-6) [0-2%]

Components with workplace control parameters

TWA	25 ppm 125 mg/m ³	USA. OSHA - TABLE Z-1 Limits for Air Contaminants – 1910.1000
TWA	25 ppm 123 mg/m ³	USA. ACGIH Threshold Limit Values (TLV)
TWA	25 ppm 125 mg/m ³	USA. NIOSH Recommended Exposure Limits

hemimellitene is a mixture of the 1,2,3-isomer with up to 10% of related aromatics such as the 1,2,4-isomer.

9. PHYSICAL / CHEMICAL PROPERTIES

Appearance:	Non-Pigmented liquid.
Physical State:	Liquid
Spec Grav./Density:	N/A
Boiling Point:	>406°F
Flammability:	None Flammable
Evap. Rate:	<1
Odor:	Mild
Flash Point:	150°F
Vapor Density:	>1

10. STABILITY & REACTIVITY

Reactivity:	No specific data
Chemical Stability:	Product is stable under normal conditions.
Conditions to Avoid:	No specific data
Materials to Avoid:	No specific data
Hazardous Decomposition	Under normal storage conditions hazardous decomposition products should not be produced.
Hazardous Polymerization:	Will not occur.

11. TOXICOLOGICAL INFORMATION

2-Propanol, 1,1',1'',1'''-(1,2-ethanediyldinitrilo)tetrakis- cas#:(102-60-3) [20- 40%]

Information on toxicological effects

Acute toxicity:

Oral LD50 no data available

Inhalation LC50

Dermal LD50

Other information on acute toxicity

Skin corrosion/irritation:

no data available

Serious eye damage/eye irritation:

no data available

Respiratory or skin sensitisation:

May cause allergic skin reaction.

Germ cell mutagenicity:

no data available

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity:

no data available

Teratogenicity:

no data available

Specific target organ toxicity - single exposure (Globally Harmonized System):

no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System):

no data available

Aspiration hazard:

no data available

Potential health effects:

Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation.

Synergistic effects:

no data available

Additional Information:

RTECS: UB5604000

Naphthalene cas#:(91-20-3) [0-7%]

Information on toxicological effects

Acute toxicity:

Oral LD50 LD50 Oral - rat - 490.0 mg/kg

Inhalation LC50 LC50 Inhalation - rat - 1 h - > 340 mg/m³ Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Lacrimation. Behavioral:Somnolence (general depressed activity).

Dermal LD50 LD50 Dermal - rabbit - 20,000 mg/kg

Other information on acute toxicity no data available

Skin corrosion/irritation:

no data available

Serious eye damage/eye irritation:

Eyes - rabbit - Mild eye irritation

Respiratory or skin sensitisation:

no data available

Germ cell mutagenicity:

no data available

Carcinogenicity:

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Naphthalene)

NTP: Reasonably anticipated to be a human carcinogen (Naphthalene)

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity:

no data available

Teratogenicity:

no data available

Specific target organ toxicity - single exposure (Globally Harmonized System):

no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System):

no data available

Aspiration hazard:

no data available

Potential health effects:

Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion Toxic if swallowed. Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation.

Signs and Symptoms of Exposure:

Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer., Naphthalene is retinotoxic and systemic absorption of its vapors above 15ppm, may result in:, cataracts, optic neuritis, corneal injury, Eye irritation, Ingestion may provoke the following symptoms:, hemolytic anemia, hemoglobinuria, Nausea, Headache, Vomiting, Gastrointestinal disturbance, Convulsions, anemia, Kidney injury may occur., Seizures., Coma.

Synergistic effects:

no data available

Additional Information:

RTECS: QJ0525000

1,2,4-Trimethylbenzene cas#:(95-63-6) [0-2%]

Information on toxicological effects

Acute toxicity:

Oral LD50 LD50 Oral - rat - 5,000 mg/kg

Inhalation LC50 LC50 Inhalation - rat - 4 h - 18,000 mg/m³

Dermal LD50 no data available

Other information on acute toxicity

Skin corrosion/irritation:

no data available

Serious eye damage/eye irritation:

no data available

Respiratory or skin sensitisation:

no data available

Germ cell mutagenicity:

Genotoxicity in vitro - in vitro assay - S. typhimurium - with and without metabolic activation – negative

Genotoxicity in vivo - rat - male and female - Intraperitoneal - negative

Carcinogenicity:

no data available

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity:

no data available

Teratogenicity:
no data available

Specific target organ toxicity - single exposure (Globally Harmonized System):
May cause respiratory irritation.

Specific target organ toxicity - repeated exposure (Globally Harmonized System):
no data available

Aspiration hazard:
no data available

Potential health effects:
Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation.

Signs and Symptoms of Exposure:
prolonged or repeated exposure can cause:, narcosis, Bronchitis., Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects:
no data available

Additional Information:

RTECS: DC3325000

12.ECOLOGICAL INFORMATION

2-Propanol, 1,1',1",1'''-(1,2-ethanediyldinitrilo)tetrakis- cas#:(102-60-3) [20-40%]

Information on ecological effects

Toxicity:
no data available

Persistence and degradability:
no data available

Bioaccumulative potential:
no data available

Mobility in soil:
no data available

PBT and vPvB assessment:
no data available

Other adverse effects:
no data available

Naphthalene cas#:(91-20-3) [0-7%]

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 0.9 - 9.8 mg/l - 96.0 h.

LC50 - Pimephales promelas (fathead minnow) - 1 - 6.5 mg/l - 96.0 h

NOEC - other fish - 1.8 mg/l - 3.0 d

LOEC - other fish - 3.2 mg/l - 3.0 d

Toxicity to daphnia EC50 - Daphnia magna (Water flea) - 1.00 - 3.40 mg/l - 48 h.
and other aquatic invertebrates

Toxicity to algae EC50 - No information available. - 33.00 mg/l - 24 h.

Persistence and degradability:

Biodegradability Result: - According to the results of tests of biodegradability this product is not readily biodegradable.

no data available

Bioaccumulative potential:

Bioaccumulation Fish - Bioconcentration factor (BCF): 427 - 1,158

Mobility in soil:

no data available

PBT and vPvB assessment:

no data available

Other adverse effects:

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

1,2,4-Trimethylbenzene cas#:(95-63-6) [0-2%]

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 7.72 mg/l - 96.0 h.

Toxicity to daphnia Immobilization EC50 - Daphnia magna (Water flea) - 3.6 mg/l - 48 h.
and other aquatic invertebrates

Persistence and degradability:

no data available

Bioaccumulative potential:

no data available

Mobility in soil:

no data available

PBT and vPvB assessment:

no data available

Other adverse effects:

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

Disposal: Any disposal practice must be in compliance with all federal, state and local laws and regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Waste characterization and disposal compliance are the responsibility solely of the party generating the waste or deciding to discard or dispose of the material. Do not allow material to enter sewers, a body of water, or contact the ground. Refer to RCRA 40 CFR 261, and/or any other appropriate federal, state or local requirements for proper classification information.

14. TRANSPORTATION INFORMATION

Land Transport:

USDOT Classified as combustible liquid in containers greater than 119 gallons.

Sea Transport:

IMDG Not classified as a dangerous good under transport regulations.

Air Transport:

IATA/ICAO Not classified as a dangerous good under transport regulations.

Further Information

DOT: This product is regulated if the amount in a single receptacle exceeds the Reportable Quantity (RQ). Please refer to Section 15 of this SDS for the RQ for this product.

15. REGULATORY INFORMATION

Component (CAS#) [%] - CODES

2-Propanol, 1,1',1",1'''-(1,2-ethanediylidinitrilo)tetrakis- (102-60-3) [20-40%] TSCA

Solvent Naphtha (Petroleum) (64742-94-5) [50-70%] TSCA

RQ(100LBS), Naphthalene (91-20-3) [0-7%] CERCLA, CSWHS, EPCRAWPC, HAP, IARC, MASS, NJHS, OSHAWAC, PA, PRIPOL, SARA313, TOXICPOL, TOXICRCRA, TSCA, TXAIR, TXHWL

Regulatory CODE Descriptions

RQ = Reportable Quantity
TSCA = Toxic Substances Control Act
CERCLA = Superfund clean up substance
CSWHS = Clean Water Act Hazardous substances
EPCRAWPC = EPCRA Water Priority Chemicals
HAP = Hazardous Air Pollutants
IARC = IARC Carcinogen Risks

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MASS = MA Massachusetts Hazardous Substances List
NJHS = NJ Right-to-Know Hazardous Substances
OSHA WAC = OSHA Workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
PRIPOL = Clean Water Act Priority Pollutants
SARA313 = SARA 313 Title III Toxic Chemicals
TOXICPOL = Clean Water Act Toxic Pollutants
TOXICRCRA = RCRA Toxic Hazardous Wastes (U-List)
TXAIR = TX Air Contaminants with Health Effects Screening Level
TXHWL = TX Hazardous Waste List

16. OTHER INFORMATION

NFPA Hazard codes:

Health 2 Fire 2 Reactivity 1 Specific None

HMIS III rating

Health 2 Fire 2 Physical Hazard 1

HMIS PPE:

Consult your supervisor for special instructions

SDS Prepared by: Technical Services

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE

RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY OUR COMPANY HEREUNDER ARE GIVEN GRATIS AND WE ASSUME NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.
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