SAFETY DATA SHEET



Section 1. Identification GHS product identifier Other means of : Not available. identification **Product type** : Liquid. **Identified uses** Not available. **Supplier's details** ÷ **Emergency telephone** : CHEMTREC. U.S. : 1-800-424-9300 International: +1-703-527-3887 number (with hours of (24/7)operation) Section 2. Hazards identification Since the carcinogenic ingredients in this compound are encapsulated, the risk of exposure by inhalation is minimum. **OSHA/HCS** status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). : SKIN CORROSION/IRRITATION - Category 2 **Classification of the** substance or mixture SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 **GHS** label elements Hazard pictograms Signal word : Warning Hazard statements : Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. **Precautionary statements** General : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. **Prevention** : Wear protective gloves. Wear eye or face protection. Avoid breathing vapor. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out

of the workplace.

Section 2. Hazards identification

Response	: IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage	: Not applicable.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: Not available.

CAS number/other identifiers

CAS number	: Not applicable.		
Product code	: Not available.		
Ingredient name		%	CAS number
Butene, homopolymer Pentene, 2,4,4-trimethyl-, sulfu Propylene carbonate Crystalline silica, quartz	urized	10 - 30 1 - 5 1 - 5 0.1 - 1	9003-29-6 68515-88-8 108-32-7 14808-60-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

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Section 4. First aid measures

Description of necessary first aid measures

Eye contact	 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately.
Skin contact	Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately.



Section 4. First aid measures

Most important symptoms/effects, acute and delayed

Potential acute health effe	<u>cts</u>				
Eye contact	: Causes serious eye irritation.				
Inhalation	: No known significant effects or critical hazards.				
Skin contact					
Ingestion	: Irritating to mouth, throat and stomach.				
Over-exposure signs/sym	<u>otoms</u>				
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness				
Inhalation	: No known significant effects or critical hazards.				
Skin contact	: Adverse symptoms may include the following: irritation redness				
Ingestion	: No known significant effects or critical hazards.				
Indication of immediate me	dical attention and special treatment needed, if necessary				
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 				
Specific treatments	: No specific treatment.				
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.				

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: No specific fire or explosion hazard.
Hazardous thermal decomposition products	: Oxides of carbon.
Special protective actions for fire-fighters	: No special measures are required.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ntainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling	L
Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.



Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name		Exposure limits		
Crystalline silica, quartz		OSHA PEL Z3 (United States, 2/2013). TWA: 10 mg/m ³ 8 hours. Form: Respirable TWA: 250 mppcf 8 hours. Form: Respirable NIOSH REL (United States, 10/2013). TWA: 0.05 mg/m ³ 10 hours. Form: Respirable dust ACGIH TLV (United States, 4/2014). TWA: 0.025 mg/m ³ 8 hours. Form: Respirable fraction		
Appropriate engineering controls	: Good general ver contaminants.	ntilation should be sufficient to control worker exposure to airborne		
Environmental exposure controls		Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.		
Individual protection meas	<u>ures</u>			
Hygiene measures	eating, smoking a Appropriate techr Contaminated wo contaminated clo	earms and face thoroughly after handling chemical products, before and using the lavatory and at the end of the working period. hiques should be used to remove potentially contaminated clothing. ork clothing should not be allowed out of the workplace. Wash thing before reusing. Ensure that eyewash stations and safety e to the workstation location.		
Eye/face protection	assessment indic gases or dusts.	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.		
Skin protection				
Hand protection	worn at all times v necessary. Cons during use that th noted that the tim glove manufactur	nt, impervious gloves complying with an approved standard should be when handling chemical products if a risk assessment indicates this is idering the parameters specified by the glove manufacturer, check e gloves are still retaining their protective properties. It should be to breakthrough for any glove material may be different for different ers. In the case of mixtures, consisting of several substances, the the gloves cannot be accurately estimated.		
Body protection		ve equipment for the body should be selected based on the task being e risks involved and should be approved by a specialist before duct.		
Other skin protection	based on the task	vear and any additional skin protection measures should be selected k being performed and the risks involved and should be approved by a handling this product.		
Respiratory protection	: Use a properly fitt standard if a risk based on known	ted, air-purifying or supplied air respirator complying with an approved assessment indicates this is necessary. Respirator selection must be or anticipated exposure levels, the hazards of the product and the safe he selected respirator.		



Section 9. Physical and chemical properties

Appearance

Physical state	1	Liquid.
Color	1	Amber.
Odor	1	Mild.
Odor threshold	1	Not available.
рН	:	Not available.
Melting point	:	Not available.
Boiling point	:	Not available.
Flash point	:	Open cup: >204.44°C (>400°F) [Cleveland.]
Evaporation rate	1	Not available.
Flammability (solid, gas)	1	Not available.
Lower and upper explosive (flammable) limits	:	Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	0.95
Solubility	1	Insoluble in the following materials: cold water and hot water. Soluble in aliphatic & aromatic solvents.
Partition coefficient: n- octanol/water	:	Not available.
Auto-ignition temperature	1	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	Not available.
Volatility	:	Not available.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.



Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Pentene, 2,4,4-trimethyl-, sulfurized	LC50 Inhalation Vapor LD50 Oral		2170 mg/m³ 3641 mg/kg	4 hours -
Propylene carbonate	LD50 Oral		>5000 mg/kg	-
Invitation/Conversion				

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Pentene, 2,4,4-trimethyl-, sulfurized Propylene carbonate	Skin - Moderate irritant Eyes - Moderate irritant Skin - Moderate irritant	Rabbit Rabbit Human	- -	24 hours 500 μL 60 mg 72 hours 100 mg Intermittent	- -
	Skin - Moderate irritant	Rabbit	-	500 mg	-

Sensitization

There is no data available.

Carcinogenicity Classification

Product/ingredient name	OSHA	IARC	NTP	ACGIH	EPA	NIOSH
Petroleum asphalt	-	2B	-	A4	-	+
Crystalline silica, quartz	-	1	Known to be a human carcinogen.	A2	-	+

Specific target organ toxicity (single exposure)

There is no data available.

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
Crystalline silica, quartz	Category 1		kidneys, respiratory tract and testes

Aspiration hazard

Name	Result
Butene, homopolymer	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	:	Routes of entry anticipated: Oral, Dermal.
Potential acute health effects		
Eye contact	:	Causes serious eye irritation.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	Causes skin irritation. May cause an allergic skin reaction.
Ingestion	:	Irritating to mouth, throat and stomach.

Symptoms related to t	the physical, chemical and toxicological characteristics	
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness	

Inhalation : No known significant effects or critical hazards.



Section 11. Toxico	ological information
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No known significant effects or critical hazards.
Delayed and immediate effect	cts and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: No known significant effects or critical hazards.
Potential delayed effects	: No known significant effects or critical hazards.
Long term exposure	
Potential immediate effects	: No known significant effects or critical hazards.
Potential delayed effects	: No known significant effects or critical hazards.
Potential chronic health eff	ects
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	182050 mg/kg

Section 12. Ecological information

Toxicity

There is no data available.

Persistence and degradability

There is no data available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Butene, homopolymer	7.6 to 7.8	314 to 1882	high
Propylene carbonate	-0.41	-	Iow

Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

Other adverse effects

: No known significant effects or critical hazards.



Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

AERG : Not applicable.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to Annex II of MARPOL 73/78 and the IBC Code

Section 15. Regulatory information

U.S. Federal regulations	: TSCA 8(a) CDR Exempt/Partial exemption: Not determined United States inventory (TSCA 8b): All components are listed or exempted.
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed
Clean Air Act Section 602 Class I Substances	: Not listed
	Tol + ±1 999 CHS 7760 (447 7760) / ±1 450 CHS 7767 (447 7767)



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Section 15. Regulatory information

Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed
SARA 302/304	

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification

: Immediate (acute) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Butene, homopolymer	10 - 30	No.	No.	No.	Yes.	No.
Pentene, 2,4,4-trimethyl-, sulfurized	1 - 5	No.	No.	No.	Yes.	No.
Propylene carbonate	1 - 5	No.	No.	No.	Yes.	No.
Crystalline silica, quartz	0.1 - 1	No.	No.	No.	No.	Yes.

SARA 313

No products were found.

State regulations

Massachusetts	: The following components are listed: Petroleum asphalt; Natural graphite; Molybdenum disulphide
New York	: None of the components are listed.

New Jersey : The following components are listed: Petroleum asphalt; Distillates (petroleum), hydrotreated heavy naphthenic; Natural graphite; Crystalline silica, quartz

Pennsylvania

: The following components are listed: Petroleum asphalt; Natural graphite; Crystalline silica, quartz

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

Ingredient name	Cancer			Maximum acceptable dosage level
Crystalline silica, quartz	Yes.	No.	No.	No.

Section 16. Other information

History

Date of issue mm/dd/yyyy	:	04/30/2015
Version	:	1
Revised Section(s)	:	Not applicable.
Prepared by	:	KMK Regulatory Services Inc.



Section 16. Other information

Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships,
	1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
	UN = United Nations
Nation to reader	

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

