



SAFETY DATA SHEET

Issuing Date: 28-Mar-2022

Revision Date: 28-Mar-2022

Print Date: 28-Mar-2022

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Code: 04629YUX-3

Product Name: 13538 ORANGE-YELLOW ZENTHANE® PLUS, MIL-PRF-85285E, TYPE I, CLASS H, MMS420

Hentzen Coatings, Inc.
6937 West Mill Road, Milwaukee, WI 53218-1225

Company Phone Number: 1-414-353-4200

Emergency telephone number ChemTrec 1-800-424-9300

Recommended use of the chemical and restrictions on use

Industrial paint (Paint or Paint-Related), Restricted to professional users

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Germ Cell Mutagenicity	Category 1B
Carcinogenicity	Category 1B
Flammable Liquids	Category 2

Label Elements

Emergency Overview

DANGER

Hazard Statements

Harmful if swallowed
harmful if inhaled
May cause genetic defects
May cause cancer
Highly flammable liquid and vapor



Appearance Opaque

Physical state Liquid

Odor Solvent

Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed
Ground/Bond container and receiving equipment
Use explosion-proof electrical/ ventilating/ lighting/ equipment
Use only non-sparking tools
Take precautionary measures against static discharge

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth
In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool
Store in accordance with local regulations

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Other information

- Harmful to aquatic life with long lasting effects
- Harmful to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

Contains a known or suspected carcinogen

This product contains substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990. See Section 15 for list of HAPS.

Chemical Name	CASNo	Weight-%	ACGIH	OSHA
HOMOPOLYMER OF HEXAMETHYLENE DIISOCYANATE	28182-81-2	20% - 30%	N/A	N/A
METHYL AMYL KETONE	110-43-0	10% -20%	TWA: 50 ppm	TWA: 100 ppm TWA: 465 mg/m ³
ORGANIC YELLOW PIGMENT 83	5567-15-7	5% -10%	N/A	N/A
TITANIUM DIOXIDE	13463-67-7	1% - 5%	TWA: 10 mg/m ³	TWA: 15 mg/m ³ total dust
LIGHT AROMATIC NAPHTHA	64742-95-6	1% - 5%	N/A	N/A
1,2,4-TRIMETHYLBENZENE	95-63-6	1% - 5%	N/A	N/A
METHYL ISOBUTYL KETONE	108-10-1	0% -1%	STEL: 75 ppm TWA: 20 ppm	TWA: 100 ppm TWA: 410 mg/m ³

4. FIRST AID MEASURES

First Aid Measures

General advice Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin Contact Wash off immediately with soap and plenty of water. Consult a physician if necessary. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

Inhalation	Asthma-like and/ or skin allergy-like symptoms.
Ingestion	Call a physician immediately. Never give anything by mouth to an unconscious person. Do NOT induce vomiting.
Self-protection of the first aider	Remove all sources of ignition.
Most important symptoms and effects, both acute and delayed	
Most Important Symptoms and Effects	No information available.
Indication of any immediate medical attention and special treatment needed	
Notes to physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media No information available.

Specific hazards arising from the chemical

Flammable. Containers may explode when heated or if contaminated with water.

Explosion Data

Sensitivity to Mechanical Impact no data available.

Sensitivity to Static Discharge Yes.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Evacuate personnel to safe areas. Ensure adequate ventilation. Remove all sources of ignition. Use personal protective equipment as required. Avoid breathing vapors or mists. Ventilate the area.

Other information DECONTAMINATION SOLUTION: Concentrated ammonia (3 - 8%), detergent (2%) and water (90 - 95%), a solution of Union Carbide's Tergitol TMN-10 (20%) and water (80%) or a solution of 50% isopropanol, 45% water, and 5% concentrated ammonia solution(% by weight).

Environmental Precautions

Environmental Precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Vapors are heavier than air, spread along floors and form explosive mixtures with air.

Methods and materials for containment and cleaning up

Methods for Containment Decontaminate floor with decontamination solution letting stand for at least 15 minutes. Soak up with inert absorbent material.

Methods for Cleaning Up Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers. Soak up with inert

absorbent material.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use explosion-proof electrical (ventilation and lighting) equipment. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). To dissipate static electricity during transfer, ground drum and connect to receiving container with bonding strap. Use only non-sparking tools.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep away from heat, sparks and flame. Protect from moisture.

Incompatible Products

Water. Glycol ethers. Alcohols. Epoxies. Bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH	OSHA	NIOSH IDLH
METHYL AMYL KETONE 110-43-0	TWA: 50 ppm	TWA: 100 ppm TWA: 465 mg/m ³	IDLH: 800 ppm TWA: 100 ppm TWA: 465 mg/m ³
METHYLPROPYLKETONE 107-87-9	STEL: 150 ppm	TWA: 200 ppm TWA: 700 mg/m ³	IDLH: 1500 ppm TWA: 150 ppm TWA: 530 mg/m ³
TITANIUM DIOXIDE 13463-67-7	TWA: 10 mg/m ³	TWA: 15 mg/m ³ total dust	IDLH: 5000 mg/m ³ TWA: 2.4 mg/m ³ CIB 63 fine TWA: 0.3 mg/m ³ CIB 63 ultrafine, including engineered nanoscale
METHYL ISOBUTYL KETONE 108-10-1	STEL: 75 ppm TWA: 20 ppm	TWA: 100 ppm TWA: 410 mg/m ³	IDLH: 500 ppm TWA: 50 ppm TWA: 205 mg/m ³ STEL: 75 ppm STEL: 300 mg/m ³

NIOSH IDLH: *Immediately Dangerous to Life or Health*

Exposure controls

Engineering Measures

Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates.

Individual protection measures, such as personal protective equipment

Eye/Face Protection

If splashes are likely to occur, wear safety glasses with side-shields.

Skin and Body Protection

Chemical resistant apron.

Respiratory Protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures

Do not eat, drink or smoke when using this product. Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid	Appearance	Opaque
Odor	Solvent.	Odor Threshold	No data available
pH	No data available	Flash Point	45 °F / 7 °C
Decomposition temperature	No data available	Boiling Point	213 °F / 101 °C
Melting Point/ Melting Range	No data available	Freezing Point	No data available
Vapor Pressure @20°C (kPa)	No data available	Partition coefficient:	No data available
Vapor Density	No data available	Density	No data available
Bulk density	No data available	Specific Gravity	1.04
Evaporation Rate	No data available	Water solubility	No data available
Dynamic viscosity	No data available	Weight per Gallon (lbs/gal):	8.70
		EPA VOC (lb/gal)	3.41
Flammability Limits in Air			
Upper	0.1 %		
Lower	0.02 %		

10. STABILITY AND REACTIVITY

Reactivity
 No data available

Chemical stability

Stable under recommended storage conditions.

Conditions to Avoid

Heat, flames and sparks.

Incompatible Materials

Water. Glycol ethers. Alcohols. Epoxies. Bases.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	The product has not been tested
Inhalation	There is no data for this product.
Eye Contact	There is no data for this product.
Skin Contact	There is no data for this product.
Ingestion	There is no data for this product.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
METHYL AMYL KETONE 110-43-0	= 1600 mg/kg (Rat)	= 12.6 mL/kg (Rabbit)	2000 - 4000 ppm (Rat) 6 h
METHYLPROPYLKETONE 107-87-9	= 1600 mg/kg (Rat)	= 6480 mg/kg (Rat)	2000 - 4000 ppm (Rat) 4 h
TITANIUM DIOXIDE 13463-67-7	> 10000 mg/kg (Rat)	N/A	N/A
1,2,4-TRIMETHYLBENZENE 95-63-6	= 3280 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 18 g/m ³ (Rat) 4 h
1,3,5-TRIMETHYLBENZENE 108-67-8	N/A	N/A	= 24 g/m ³ (Rat) 4 h
METHYL ISOBUTYL KETONE 108-10-1	= 2080 mg/kg (Rat)	= 3000 mg/kg (Rabbit)	2000 - 4000 ppm (Rat) 4 h

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.
MUTAGENIC EFFECTS No information available.
Carcinogenicity This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B).

Chemical Name	ACGIH	IARC	NTP	OSHA
TITANIUM DIOXIDE 13463-67-7	N/A	Group 2B	N/A	X
METHYL ISOBUTYL KETONE 108-10-1	A3	Group 2B	N/A	X

Legend:

- ACGIH (American Conference of Governmental Industrial Hygienists)
- A3 - Animal Carcinogen
- IARC (International Agency for Research on Cancer)
- Group 2B - Possibly Carcinogenic to Humans
- OSHA (Occupational Safety and Health Administration of the US Department of Labor)
- X-Present

Reproductive Toxicity No information available.
Specific target organ systemic toxicity (single exposure) No information available.
Specific target organ systemic toxicity (repeated exposure) No information available.
Chronic Toxicity May cause adverse effects on the bone marrow and blood-forming system.
Target Organ Effects Blood, Central nervous system (CNS), Eyes, Lungs, Peripheral Nervous System (PNS), Respiratory system, Skin.
Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 1007 mg/kg
ATEmix (dermal) 9793 mg/kg
ATEmix (inhalation-dust/mist) 3.6 mg/l
Oral LD50 1910 mg/kg (rat) Estimated
Dermal LD50 17182 mg/kg (rat) Estimated
Inhalation LC50 207503 mg/l (mist) (dust) mg/m³ Estimated
Inhalation LC50 ml/m³ (vapor) Estimated

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to daphnia and other aquatic invertebrates
METHYL AMYL KETONE 110-43-0	N/A	126 - 137: 96 h Pimephales promelas mg/L LC50 flow-through	N/A
METHYLPROPYLKETONE 107-87-9	N/A	1190 - 1290: 96 h Pimephales promelas mg/L LC50 flow-through	N/A
1,2,4-TRIMETHYLBENZENE 95-63-6	N/A	7.19-8.28: 96 h Pimephales promelas mg/L LC50 flow-through	6.14: 48 h Daphnia magna mg/L EC50
1,3,5-TRIMETHYLBENZENE 108-67-8	N/A	3.48: 96 h Pimephales promelas mg/L LC50	N/A
METHYL ISOBUTYL KETONE 108-10-1	400: 96 h Pseudokirchneriella subcapitata mg/L EC50	496 - 514: 96 h Pimephales promelas mg/L LC50 flow-through	170: 48 h Daphnia magna mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	Partition coefficient
METHYL AMYL KETONE 110-43-0	1.98
1,2,4-TRIMETHYLBENZENE 95-63-6	3.63
METHYL ISOBUTYL KETONE 108-10-1	1.19

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste treatment methods This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

US EPA Waste Number D001

Chemical Name	RCRA - Basis for Listing	RCRA - D Series Wastes
METHYL ISOBUTYL KETONE 108-10-1	Included in waste stream: F039	N/A

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
METHYLPROPYLKETONE 107-87-9	Toxic Ignitable

14. TRANSPORT INFORMATION

DOT

UN-No UN1263
 Proper shipping name Paint
 Hazard class 3
 Packing Group II
 Special Provisions 149, B52, IB2, T4, TP1, TP8, TP28
 Description UN1263, Paint, 3, II
 Emergency Response Guide Number 128

TDG

UN-No UN1263
 Proper shipping name Paint
 Hazard class 3
 Packing Group II
 Description UN1263, Paint, 3, II

MEX

UN-No UN1263
 Proper shipping name Paint
 Hazard class 3
 Packing Group II
 Description UN1263, Paint, 3, II

ICAO

UN-No UN1263
Proper shipping name Paint
Hazard class 3
Packing Group II
Special Provisions A3, A72
Description UN1263, Paint, 3, II

IATA

UN-No UN1263
Hazard class 3
Packing Group II
ERG Code 3L
Special Provisions A3, A72, A192

IMDG/IMO

UN-No UN1263
Hazard class 3
Packing Group II
EmS-No F-E, S-E
Special Provisions 163,367

RID

UN-No UN1263
Proper shipping name Paint
Hazard class 3
Packing Group II
Classification Code F1
Description UN1263, Paint, 3, II

ADR/RID

UN-No UN1263
Proper shipping name Paint
Hazard class 3
Packing Group II
Classification Code F1
Tunnel restriction code (D/E)
Special Provisions 163,640C,650,367
Description UN1263, Paint, 3, II, (D/E)
ADR/RID-Labels 3

ADN

Proper shipping name Paint
Hazard class 3
Packing Group II
Classification Code F1
Special Provisions 163, 640C, 650
Description UN1263, Paint, 3, II
Hazard Labels 3
Limited Quantity (LQ) 5 L
Ventilation VE01

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies
ENCS Complies
IECSC Complies
KECL Complies
PICCS Complies
AICS Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
 ENCS - Japan Existing and New Chemical Substances
 IECSC - China Inventory of Existing Chemical Substances
 KECL - Korean Existing and Evaluated Chemical Substances
 PICCS - Philippines Inventory of Chemicals and Chemical Substances
 AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CASNo	SARA 313 - Threshold Values %
1,2,4-TRIMETHYLBENZENE	95-63-6	1.0
METHYL ISOBUTYL KETONE	108-10-1	0.1

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CAA (Clean Air Act)

U.S. - CAA (Clean Air Act)- 1990 Hazardous Air Pollutants This product contains the following HAPs:

Chemical Name	CASNo	Hazardous air pollutants (HAPs) content
METHYL ISOBUTYL KETONE	108-10-1	Present

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ (reportable quantity)
METHYL ISOBUTYL KETONE	5000lb	N/A	RQ 5000 lb final RQ RQ 2270 kg final RQ

State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical Name	CASNo	California Proposition 65
TITANIUM DIOXIDE	13463-67-7	Carcinogen
METHYL ISOBUTYL KETONE	108-10-1	Carcinogen Developmental

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
METHYL AMYL KETONE	X	X	X	N/A	N/A

METHYL PROPYL KETONE	X	X	X	N/A	N/A
TITANIUM DIOXIDE	X	X	X	N/A	N/A
1,2,4-TRIMETHYLBENZENE	X	X	X	X	N/A
E					
N-PROPYLBENZENE	X	X	X	N/A	N/A
METHYL ISOBUTYL KETONE	X	X	X	X	N/A
BUTYL ACETATE	X	X	X	N/A	N/A

International Regulations

Mexico - Grade Serious risk, Grade 3

Chemical Name	Carcinogenic Status	Exposure Limits
METHYL AMYL KETONE	N/A	Mexico: TWA 50 ppm
METHYL PROPYL KETONE	N/A	Mexico: STEL 150 ppm
TITANIUM DIOXIDE	N/A	Mexico: TWA 10 mg/m ³
METHYL ISOBUTYL KETONE	A3	Mexico: TWA 20 ppm Mexico: STEL 75 ppm

16. OTHER INFORMATION

NFPA Health Hazard 2 Flammability 3 Instability 0 Physical and Chemical Hazards -

NFPA Rating

HMIS Health Hazard 2 * Flammability 3 Physical Hazard 0 Personal protection X

Chronic Hazard Star Legend

* Chronic Health Hazard

Issuing Date: 28-Mar-2022

Revision Date: 28-Mar-2022

Revision Note

No information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. 04629YUX-3

end



SAFETY DATA SHEET

Issuing Date: 02-Jan-2021

Revision Date: 11-Oct-2013

Print Date: 05-Feb-2021

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Code: 04600CHA-SC

Product Name: ACTIVATOR FOR FLAT MIL-PRF-85285E,TYPE I,CLASS H,PART B

Hentzen Coatings, Inc.
6937 West Mill Road, Milwaukee, WI 53218-1225

Company Phone Number: 1-414-353-4200

Emergency telephone number ChemTrec 1-800-424-9300
Industrial paint (Paint or Paint-Related), Restricted to professional users

Recommended use of the chemical and restrictions on use

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)


Skin Corrosion/Irritation	Category 2
Serious eye damage/eye irritation	Category 2
Germ Cell Mutagenicity	Category 1B
Carcinogenicity	Category 1B
Aspiration toxicity	Category 1
Flammable Liquids	Category 3

Label Elements

Emergency Overview

DANGER

Hazard Statements
 Causes skin irritation
 Causes serious eye irritation
 May cause genetic defects
 May cause cancer
 May be fatal if swallowed and enters airways
 Flammable liquid and vapor



Appearance Clear **Physical state** Liquid **Odor** Solvent

Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Wear eye/face protection
Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed
Ground/Bond container and receiving equipment
Use explosion-proof electrical/ ventilating/ lighting/ equipment
Use only non-sparking tools
Take precautionary measures against static discharge

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/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 advice/attention
If skin irritation occurs: Get medical advice/attention
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Do NOT induce vomiting
In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool
Store in accordance with local regulations

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Other information

- May be harmful in contact with skin
- Very toxic to aquatic life with long lasting effects
- Very toxic to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

Contains a known or suspected carcinogen

This product contains substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990. See Section 15 for list of HAPS.

Chemical Name	CASNo	Weight-%	ACGIH	OSHA
PROPRIETARY AMINE	54914-37-3	40% - 50%	N/A	N/A
MIXTURE OF AROMATIC HYDROCARBONS	64742-94-5	20% - 30%	N/A	N/A
LIGHT AROMATIC NAPHTHA	64742-95-6	10% - 20%	N/A	N/A
1,2,4-TRIMETHYLBENZENE	95-63-6	5% - 10%	N/A	N/A
1,3,5-TRIMETHYLBENZENE	108-67-8	1% - 5%	N/A	N/A
N-PROPYLBENZENE	103-65-1	1% - 5%	N/A	N/A
CUMENE	98-82-8	0% - 1%	TWA: 50 ppm	TWA: 50 ppm TWA: 245 mg/m ³ S*
COURMARONE-INDENE HARD RESIN	91-20-3	0% - 1%	TWA: 10 ppm S*	TWA: 10 ppm TWA: 50 mg/m ³
XYLENE(PURE)	1330-20-7	0% - 1%	STEL: 150 ppm TWA: 100 ppm	TWA: 100 ppm TWA: 435 mg/m ³

4. FIRST AID MEASURES

First Aid Measures

General advice Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Eye Contact	Immediately flush eyes with water for at least 15 minutes. Get medical attention. If easy to do, remove contact lenses. Keep eye wide open while rinsing. If symptoms persist, call a physician.
Skin Contact	Wash off immediately with plenty of water.
Inhalation	Consult a physician if necessary. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.
Ingestion	Do NOT induce vomiting.
Self-protection of the first aider	Remove all sources of ignition.
Most important symptoms and effects, both acute and delayed	
Most Important Symptoms and Effects	No information available.
Indication of any immediate medical attention and special treatment needed	
Notes to physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media No information available.

Specific hazards arising from the chemical

Flammable.

Explosion Data

Sensitivity to Mechanical Impact no data available.

Sensitivity to Static Discharge Yes.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Evacuate personnel to safe areas. Ensure adequate ventilation. Remove all sources of ignition. Use personal protective equipment as required. Avoid breathing vapors or mists. Ventilate the area.

Environmental Precautions

Environmental Precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Vapors are heavier than air, spread along floors and form explosive mixtures with air.

Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Pick up and transfer to properly labeled containers. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Soak up with inert absorbent material.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use explosion-proof electrical (ventilation and lighting) equipment. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). To dissipate static electricity during transfer, ground drum and connect to receiving container with bonding strap. Use only non-sparking tools.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep away from heat, sparks and flame.

Incompatible Products None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH	OSHA	NIOSH IDLH
CUMENE 98-82-8	TWA: 50 ppm	TWA: 50 ppm TWA: 245 mg/m ³ S*	IDLH: 900 ppm TWA: 50 ppm TWA: 245 mg/m ³
COURMARONE-INDENE HARD RESIN 91-20-3	TWA: 10 ppm S*	TWA: 10 ppm TWA: 50 mg/m ³	IDLH: 250 ppm TWA: 10 ppm TWA: 50 mg/m ³ STEL: 15 ppm STEL: 75 mg/m ³
XYLENE(PURE) 1330-20-7	STEL: 150 ppm TWA: 100 ppm	TWA: 100 ppm TWA: 435 mg/m ³	

NIOSH IDLH: *Immediately Dangerous to Life or Health*

Exposure controls

Engineering Measures Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Use personal protective equipment as required.

Skin and Body Protection Chemical resistant apron.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures Do not eat, drink or smoke when using this product. Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid	Appearance	Clear
Odor	Solvent.	Odor Threshold	No data available

pH No data available
 Decomposition temperature No data available
 Melting Point/ Melting Range No data available
 Vapor Pressure @20°C (kPa) No data available
 Vapor Density No data available
 Bulk density No data available
 Evaporation Rate No data available
 Dynamic viscosity No data available

Flash Point 106 °F / 41 °C
 Boiling Point 278 °F / 137 °C
 Freezing Point No data available
 Partition coefficient: No data available
 Density No data available
 Specific Gravity 0.87
 Water solubility No data available
 Weight per Gallon (lbs/gal): 7.28
 EPA VOC (lb/gal) 4.28

Flammability Limits in Air

Upper 0.05 %
 Lower 0.01 %

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Conditions to Avoid

Heat, flames and sparks.

Incompatible Materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information The product has not been tested

Inhalation There is no data for this product.

Eye Contact There is no data for this product.

Skin Contact There is no data for this product.

Ingestion There is no data for this product.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
1,2,4-TRIMETHYLBENZENE 95-63-6	= 3280 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 18 g/m ³ (Rat) 4 h
1,3,5-TRIMETHYLBENZENE 108-67-8	N/A	N/A	= 24 g/m ³ (Rat) 4 h
CUMENE 98-82-8	= 1400 mg/kg (Rat)	= 12300 µL/kg (Rabbit)	> 3577 ppm (Rat) 6 h
COURMARONE-INDENE HARD RESIN 91-20-3	= 1110 mg/kg (Rat)	= 1120 mg/kg (Rabbit)	> 340 mg/m ³ (Rat) 1 h
XYLENE(PURE) 1330-20-7	= 3500 mg/kg (Rat)	> 4350 mg/kg (Rabbit)	= 29.08 mg/L (Rat) 4 h

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

MUTAGENIC EFFECTS

Carcinogenicity

No information available.

This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B).

Chemical Name	ACGIH	IARC	NTP	OSHA
CUMENE 98-82-8	N/A	Group 2B	Reasonably Anticipated	X
COURMARONE-INDENE HARD RESIN 91-20-3	A3	Group 2A Group 2B	Reasonably Anticipated	X
XYLENE(PURE) 1330-20-7	N/A	Group 3	N/A	N/A

Legend:

- ACGIH (American Conference of Governmental Industrial Hygienists)
- A3 - Animal Carcinogen
- IARC (International Agency for Research on Cancer)
- Group 2B - Possibly Carcinogenic to Humans
- Group 2A - Probably Carcinogenic to Humans
- NTP (National Toxicology Program)
- Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen
- OSHA (Occupational Safety and Health Administration of the US Department of Labor)
- X-Present

Reproductive Toxicity

No information available.

Specific target organ systemic toxicity (single exposure)

No information available.

Specific target organ systemic toxicity (repeated exposure)

No information available.

Chronic Toxicity

May cause adverse effects on the bone marrow and blood-forming system. May cause adverse liver effects.

Target Organ Effects

Blood, Central nervous system (CNS), Eyes, Kidney, Liver, Respiratory system, Skin.

Aspiration hazard

No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)	5678 mg/kg
ATEmix (dermal)	2506 mg/kg
ATEmix (inhalation-dust/mist)	10.1 mg/l
Oral LD50	9033 mg/kg (rat) Estimated
Dermal LD50	4134 mg/kg (rat) Estimated
Inhalation LC50	24417 mg/l (mist) (dust) mg/m ³ Estimated
Inhalation LC50	

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to daphnia and other aquatic invertebrates
1,2,4-TRIMETHYLBENZENE 95-63-6	N/A	7.19-8.28: 96 h Pimephales promelas mg/L LC50 flow-through	6.14: 48 h Daphnia magna mg/L EC50
1,3,5-TRIMETHYLBENZENE 108-67-8	N/A	3.48: 96 h Pimephales promelas mg/L LC50	N/A
CUMENE 98-82-8	2.6: 72 h Pseudokirchneriella subcapitata mg/L EC50	6.04-6.61: 96 h Pimephales promelas mg/L LC50 flow-through 2.7: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 4.8: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 5.1: 96 h Poecilia reticulata mg/L LC50 semi-static	7.9-14.1: 48 h Daphnia magna mg/L EC50 Static 0.6: 48 h Daphnia magna mg/L EC50
COURMARONE-INDENE HARD RESIN 91-20-3	N/A	0.91-2.82: 96 h Oncorhynchus mykiss mg/L LC50 static 5.74 - 6.44: 96 h Pimephales promelas	1.09-3.4: 48 h Daphnia magna mg/L EC50 Static 1.96: 48 h Daphnia magna mg/L EC50 Flow

		mg/L LC50 flow-through 1.6: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 1.99: 96 h Pimephales promelas mg/L LC50 static 31.0265: 96 h Lepomis macrochirus mg/L LC50 static	through 2.16: 48 h Daphnia magna mg/L LC50
XYLENE(PURE) 1330-20-7	N/A	13.1-16.5: 96 h Lepomis macrochirus mg/L LC50 flow-through 13.5-17.3: 96 h Oncorhynchus mykiss mg/L LC50 2.661-4.093: 96 h Oncorhynchus mykiss mg/L LC50 static 23.53-29.97: 96 h Pimephales promelas mg/L LC50 static 30.26-40.75: 96 h Poecilia reticulata mg/L LC50 static 7.711-9.591: 96 h Lepomis macrochirus mg/L LC50 static 13.4: 96 h Pimephales promelas mg/L LC50 flow-through 19: 96 h Lepomis macrochirus mg/L LC50 780: 96 h Cyprinus carpio mg/L LC50 semi-static 780: 96 h Cyprinus carpio mg/L LC50	0.6: 48 h Gammarus lacustris mg/L LC50 3.82: 48 h water flea mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	Partition coefficient
MIXTURE OF AROMATIC HYDROCARBONS 64742-94-5	6.1
1,2,4-TRIMETHYLBENZENE 95-63-6	3.63
N-PROPYLBENZENE 103-65-1	3.68
CUMENE 98-82-8	3.7
COURMARONE-INDENE HARD RESIN 91-20-3	3.6
XYLENE(PURE) 1330-20-7	3.15

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste treatment methods

This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

US EPA Waste Number

D001

Chemical Name	RCRA - Basis for Listing	RCRA - D Series Wastes
COURMARONE-INDENE HARD RESIN 91-20-3	Included in waste streams: F024, F025, F034, F039, K001, K035, K060, K087, K145	N/A
XYLENE(PURE) 1330-20-7	Included in waste stream: F039	N/A

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
COURMARONE-INDENE HARD RESIN	N/A	N/A	Toxic waste waste number F025	N/A

91-20-3			Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.
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This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
CUMENE 98-82-8	Toxic Ignitable
COURMARONE-INDENE HARD RESIN 91-20-3	Toxic
XYLENE(PURE) 1330-20-7	Toxic Ignitable

14. TRANSPORT INFORMATION

DOT

UN-No UN3469
Proper shipping name Paint related material, flammable, corrosive
Hazard class 3
Subsidiary Class 8
Packing Group III
Special Provisions IB3, T4, TP1, TP29
Description UN3469, Paint related material, flammable, corrosive, 3 (8), III, RQ
Emergency Response Guide Number 132

TDG

UN-No UN3469
Proper shipping name Paint, flammable, corrosive
Hazard class 3
Subsidiary Class 8
Packing Group III
Description UN3469, Paint, flammable, corrosive, 3 (8), III

MEX

UN-No UN3469
Proper shipping name Paint, flammable, corrosive
Hazard class 3
Subsidiary Class 8
Packing Group III
Description UN3469, Paint, flammable, corrosive (1,2,4-TRIMETHYLBENZENE, 1,3,5-TRIMETHYLBENZENE), 3 (8), III

ICAO

UN-No UN3469
Proper shipping name Paint related material, flammable, corrosive
Hazard class 3
Subsidiary hazard class 8
Packing Group III

Special Provisions A3, A72
Description UN3469, Paint related material, flammable, corrosive, 3 (8), III

IATA

UN-No UN3469
Hazard class 3
Subsidiary hazard class 8
Packing Group III
ERG Code 3C
Special Provisions A3,A72,A803,A192

IMDG/IMO

UN-No UN3469
Hazard class 3
Subsidiary hazard class 8
Packing Group III
EmS-No F-E, S-C
Special Provisions 163,223,367

RID

UN-No UN3469
Proper shipping name Paint, flammable, corrosive
Hazard class 3
Packing Group III
Classification Code FC
Description UN3469, Paint, flammable, corrosive, 3 (8), III
ADR/RID-Labels 8

ADR/RID

UN-No UN3469
Proper shipping name Paint, flammable, corrosive
Hazard class 3
Packing Group III
Classification Code FC
Tunnel restriction code (D/E)
Special Provisions 163,367
Description UN3469, Paint, flammable, corrosive, 3 (8), III, (D/E)
ADR/RID-Labels 3 + 8

ADN

Proper shipping name Paint, flammable, corrosive
Hazard class 3
Packing Group III
Classification Code FC
Special Provisions 163
Description UN3469, Paint, flammable, corrosive, 3 (8), III
Hazard Labels 3 + 8
Limited Quantity (LQ) 5 L
Ventilation VE01

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies
ENCS Complies
IECSC Complies
KECL Complies
PICCS Complies
AICS Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
 ENCS - Japan Existing and New Chemical Substances
 IECSC - China Inventory of Existing Chemical Substances
 KECL - Korean Existing and Evaluated Chemical Substances
 PICCS - Philippines Inventory of Chemicals and Chemical Substances
 AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CASNo	SARA 313 - Threshold Values %
1,2,4-TRIMETHYLBENZENE	95-63-6	1.0
CUMENE	98-82-8	0.1
COURMARONE-INDENE HARD RESIN	91-20-3	0.1

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CAA (Clean Air Act)

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants This product contains the following HAPs:

Chemical Name	CASNo	Hazardous air pollutants (HAPs) content
CUMENE	98-82-8	Present
COURMARONE-INDENE HARD RESIN	91-20-3	Present
XYLENE(PURE)	1330-20-7	Present

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
COURMARONE-INDENE HARD RESIN	100lb	X	X	X
XYLENE(PURE)	100lb	N/A	N/A	X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ (reportable quantity)
CUMENE	5000lb	N/A	RQ 5000 lb final RQ RQ 2270 kg final RQ
COURMARONE-INDENE HARD RESIN	100 lb 1 lb	N/A	RQ 100 lb final RQ RQ 45.4 kg final RQ RQ 1 lb final RQ RQ 0.454 kg final RQ
XYLENE(PURE)	100 lb	N/A	RQ 100 lb final RQ RQ 45.4 kg final RQ

State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical Name	CAS No	California Proposition 65
CUMENE	98-82-8	Carcinogen
COURMARONE-INDENE HARD RESIN	91-20-3	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
1,2,4-TRIMETHYLBENZENE	X	X	X	X	N/A
N-PROPYLBENZENE	X	X	X	N/A	N/A
CUMENE	X	X	X	X	N/A
COURMARONE-INDENE HARD RESIN	X	X	X	X	N/A
XYLENE(PURE)	X	X	X	X	N/A

International Regulations

Mexico - Grade

Moderate risk, Grade 2

Chemical Name	Carcinogenic Status	Exposure Limits
CUMENE	N/A	Mexico: TWA 50 ppm
COURMARONE-INDENE HARD RESIN	N/A	Mexico: TWA 10 ppm Mexico: TWA 50 mg/m ³ Mexico: STEL 15 ppm
XYLENE(PURE)	N/A	Mexico: TWA 100 ppm Mexico: STEL 150 ppm

16. OTHER INFORMATION

NFPA Health Hazard 2 Flammability 2 Instability 0 Physical and Chemical Hazards -

NFPA Rating

HMIS Health Hazard 2 * Flammability 2 Physical Hazard 1 Personal protection X

Chronic Hazard Star Legend

* Chronic Health Hazard

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Revision Date: 11-Oct-2013

Revision Note

No information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information

relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. 04600CHA-SC

end