Eastman(TM) Chlorinated Polyolefin 515-2 (40% in Aromatic 100)

Version	Revision Date:	SDS Number:	Date of last issue: 11/12/2018
2.4	01/28/2020	150000000069	Date of first issue: 09/06/2016
PRD		SDSUS / Z8 / 0001	

SECTION 1. IDENTIFICATION

Product name : Eastman(TM) Chlorinated Polyolefin 515-2 (40% in Aromatic 100)

Product code : 10381-00, S1038103, S1038104, S1038107

Manufacturer or supplier's details

Company name of supplier : Eastman Chemical Company

Address : 200 South Wilcox Drive
Kingsport TN 37660-5280

Telephone : (423) 229-2000

Emergency telephone : CHEMTREC: +1-800-424-9300, +1-703-527-3887 CCN7321

Recommended use of the chemical and restrictions on use

Recommended use : Adhesion promoter

Restrictions on use : None known.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Flammable liquids : Category 3

Skin irritation : Category 2

Eye irritation : Category 2A

Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

Specific target organ toxicity - repeated exposure : Category 2

GHS label elements

Hazard pictograms :

Signal Word : Warning

Hazard Statements : H226 Flammable liquid and vapor.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements :

Prevention:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314 Get medical advice/ attention if you feel unwell.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Disposal:

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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components

Chemical name	CAS-No.	Concentration (% w/w)
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified	64742-95-6	38
chlorinated polyolefin	68442-33-1	35
1,2,4-Trimethylbenzene	95-63-6	19.2
chlorobenzene	108-90-7	< 4
epoxidized oil	61789-01-3	< 4
xylenes	1330-20-7	< 1.4
cumene	98-82-8	0.9
ethylbenzene	100-41-4	< 0.5

SECTION 4. FIRST AID MEASURES

If inhaled : Move to fresh air.
Treat symptomatically.
If symptoms persist, call a physician.

In case of skin contact : Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Wash contaminated clothing before re-use.
Get medical attention.
Thoroughly clean shoes before reuse.

In case of eye contact : Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/ attention.

If swallowed : Call a physician or poison control center immediately.
Do NOT induce vomiting.
If victim is fully conscious, give a cupful of water.
Never give anything by mouth to an unconscious person.
Hold person's head low, to prevent aspiration.

Most important symptoms and effects, both acute and delayed : May be fatal if swallowed and enters airways.
Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.
Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.

Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Carbon dioxide (CO2) Dry chemical Water spray
Specific hazards during fire fighting	:	Water may be ineffective. The product will float on water and can be reignited on surface water.
Further information	:	Use water spray to cool unopened containers. Flammable liquid and vapor.
Special protective equipment for fire-fighters	:	Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Wear appropriate personal protective equipment.
Local authorities should be advised if significant spillages cannot be contained.

Environmental precautions	:	Avoid release to the environment.
Methods and materials for containment and cleaning up	:	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). After cleaning, flush away traces with water. Eliminate all ignition sources if safe to do so.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	None known.
Advice on safe handling	:	Avoid inhalation of vapor or mist. Do not get in eyes. Avoid contact with skin, eyes and clothing. Do not taste or swallow. Ensure adequate ventilation. Wash thoroughly after handling. Keep away from fire (No Smoking). Keep away from fire, sparks and heated surfaces. Do not use sparking tools.
Conditions for safe storage	:	Keep container closed when not in use. Store locked up.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
1,2,4-Trimethylbenzene	95-63-6	TWA	25 ppm 125 mg/m3	NIOSH REL
chlorobenzene	108-90-7	TWA	10 ppm	ACGIH
		TWA	75 ppm 350 mg/m3	OSHA Z-1
		TWA	75 ppm 350 mg/m3	OSHA P0
xylenes	1330-20-7	TWA	100 ppm 435 mg/m3	OSHA Z-1
		TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
		STEL	150 ppm 655 mg/m3	OSHA P0
		TWA	100 ppm 435 mg/m3	OSHA P0
		TWA	100 ppm 435 mg/m3	ACGIH
		STEL	150 ppm 655 mg/m3	OSHA Z-1
		STEL	150 ppm	ACGIH
		TWA	100 ppm 435 mg/m3	OSHA Z-1
		TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
		STEL	150 ppm 655 mg/m3	OSHA P0
		TWA	100 ppm 435 mg/m3	OSHA P0
cumene	98-82-8	TWA	50 ppm	ACGIH
		TWA	50 ppm 245 mg/m3	NIOSH REL
		TWA	50 ppm 245 mg/m3	OSHA Z-1
		TWA	50 ppm 245 mg/m3	OSHA P0
ethylbenzene	100-41-4	TWA	20 ppm	ACGIH
		TWA	100 ppm 435 mg/m3	NIOSH REL
		ST	125 ppm 545 mg/m3	NIOSH REL
		TWA	100 ppm	OSHA Z-1

			435 mg/m3	
		TWA	100 ppm 435 mg/m3	OSHA P0
		STEL	125 ppm 545 mg/m3	OSHA P0

Engineering measures : Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Hand protection

Remarks : Wear suitable gloves.

Eye protection : Wear safety glasses with side shields (or goggles).
Face-shield
Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.

Protective measures : Remove respiratory and skin/eye protection only after vapors have been cleared from the area.
Ensure that eye flushing systems and safety showers are located close to the working place.
Use personal protective equipment as required.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : viscous liquid

Color : amber

Odor : odorless

Odor Threshold : not determined

pH : not determined

Melting point/range :

Boiling point/boiling range	:	311 °F / 155 °C
Flash point	:	108 °F / 42 °C Method: Tag closed cup
Evaporation rate	:	not determined
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Vapor pressure	:	not determined
Relative vapor density	:	not determined
Relative density	:	0.94 (68 °F / 20 °C)
Solubility(ies) Water solubility	: :	 negligible
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	880 °F / 471 °C
Decomposition temperature	:	572 °F / 300 °C Decomposition energy (mass): 134 J/g Method: HPDSC
Viscosity Viscosity, dynamic	 :	 not determined
Viscosity, kinematic	:	not determined
Explosive properties	:	No data available
Oxidizing properties	:	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Stable Hazardous decomposition products formed under fire conditions.

Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	Carbon dioxide (CO2) Carbon monoxide hydrogen chloride

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity

: Remarks: No data available

Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Remarks: No data available

Acute toxicity estimate: 54.19 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Method: Calculation method

Acute dermal toxicity : Remarks: No data available

Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Components:

1,2,4-Trimethylbenzene:

Acute oral toxicity

: LD50 Oral (Rat, male): 6,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 18 mg/l
Exposure time: 4 h
Remarks: respiratory tract irritation

Acute dermal toxicity : LD50 Dermal (Rat): > 3,440 mg/kg
Remarks: Read-across from a similar material

chlorobenzene:

Acute oral toxicity

: LD50 Oral (Rat): 2,262 mg/kg

Acute inhalation toxicity : LC50 (Rat): 29.7 mg/l
Exposure time: 4 h

Acute dermal toxicity : LD50 Dermal (Guinea pig): > 20,000 mg/kg

xylenes:

Acute oral toxicity
: LD50 Oral (Rat, male): 3,523 mg/kg

LD50 Oral (Rat, female): > 4,000 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): > 4,200 mg/kg

cumene:

Acute oral toxicity
: LD50 Oral (Rat): 2,910 mg/kg

Acute inhalation toxicity : LC50 (Rat): 41.6 mg/l
Exposure time: 4 h

Acute dermal toxicity : LD50 Dermal (Rabbit): > 10,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

ethylbenzene:

Acute oral toxicity
: LD50 Oral (Rat): 3,500 mg/kg

Acute inhalation toxicity : LC50 (Rat): 17 mg/l
Exposure time: 4 h

Acute dermal toxicity : LD50 Dermal (Rabbit): 15,400 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks : Causes skin irritation.

Components:

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified:

Species : Rabbit
Exposure time : 72 h
Result : slight

1,2,4-Trimethylbenzene:

Species : Rabbit
Exposure time : 72 h
Result : slight

Remarks : Read-across from a similar material

chlorobenzene:

Species : Guinea pig
Exposure time : 24 h
Result : slight

xylenes:

Species : Rabbit
Exposure time : 24 h
Result : slight

cumene:

Species : Rabbit
Exposure time : 72 h
Result : slight

ethylbenzene:

Species : Rabbit
Exposure time : 24 h
Result : slight

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks : Causes eye irritation.

Components:

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified:

Species : Rabbit
Result : none

1,2,4-Trimethylbenzene:

Species : Rabbit
Result : slight

chlorobenzene:

Species : Rabbit
Result : slight

xylenes:

Species : Rabbit
Result : slight to moderate
Exposure time : 24 h

cumene:

Species	:	Rabbit
Result	:	slight
Exposure time	:	72 h

ethylbenzene:

Species	:	Rabbit
Result	:	moderate to strong

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Product:

Remarks	:	No data available

Components:

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified:

Test Type	:	Skin Sensitization
Species	:	Guinea pig
Result	:	non-sensitizing

1,2,4-Trimethylbenzene:

Test Type	:	Skin Sensitization
Species	:	Guinea pig
Result	:	non-sensitizing

chlorobenzene:

Test Type	:	Skin Sensitization
Species	:	Guinea pig
Result	:	non-sensitizing

xylenes:

Test Type	:	OECD 429: LLNA
Species	:	Mouse
Result	:	non-sensitizing

cumene:

Test Type	:	Skin Sensitization
Species	:	Guinea pig
Result	:	non-sensitizing

ethylbenzene:

Test Type	:	Skin Sensitization

Result : non-sensitizing

Germ cell mutagenicity

Not classified based on available information.

Components:

chlorobenzene:

Genotoxicity in vitro : Test Type: Mutagenicity - Bacterial
Metabolic activation: +/- activation
Method: Bacterial Reverse Mutation Assay
Result: negative
Remarks: Published study

Test Type: Mutagenicity - Mammalian
Metabolic activation: +/- activation
Method: In vitro Mammalian Chromosome Aberration Test
Result: negative
Remarks: Published study

Test Type: Mutagenicity - Mammalian
Metabolic activation: +/- activation
Method: Genetic Toxicology: In Vitro Sister Chromatid Exchange Assay in Mammalian Cells
Result: negative
Remarks: Published study

Genotoxicity in vivo : Species: Drosophila melanogaster
Method: Genetic Toxicology: Sex-Linked Recessive Lethal Test in Drosophila melanogaster
Result: negative
Remarks: Published study

xylenes:

Genotoxicity in vitro : Test Type: Salmonella typhimurium assay (Ames test)
Metabolic activation: +/- activation
Result: negative

Genotoxicity in vivo : Species: Rat
Application Route: intraperitoneal injection
Method: Genetic Toxicology: Rodent Dominant Lethal Test
Result: negative

Carcinogenicity

Not classified based on available information.

Product:

Remarks : This information is not available.

IARC Group 2B: Possibly carcinogenic to humans
cumene 98-82-8

Group 2B: Possibly carcinogenic to humans
ethylbenzene 100-41-4

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP Reasonably anticipated to be a human carcinogen
cumene 98-82-8

Reproductive toxicity

Not classified based on available information.

Product:

Effects on fertility : Remarks: No data available

STOT-single exposure

May cause respiratory irritation.

Product:

Remarks : No data available

Components:

chlorobenzene:

Routes of exposure : Inhalation
Target Organs : Narcotic effects

xylenes:

Assessment : May cause respiratory irritation.

ethylbenzene:

Routes of exposure : Inhalation
Target Organs : Narcotic effects

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Product:

Remarks : No data available

Components:

chlorobenzene:

Routes of exposure : Oral
Assessment : Based on available data, the classification criteria are not met.

Repeated dose toxicity

Components:

chlorobenzene:

Species	:	Rat, Male and Female
NOAEL	:	120 mg/kg
Method	:	OECD Test No. 451: Carcinogenicity Studies
Remarks	:	Published study
Species	:	Rat, Male and Female
	:	235 mg/m³
Method	:	OECD Test No. 416: Two-Generation Reproduction Toxicity Study
Remarks	:	Published study

xylenes:

Species	:	Rat, Male and Female
NOAEL	:	250 mg/kg
Application Route	:	Oral Study
Species	:	Rat, male
	:	3515 mg/m³
Application Route	:	Inhalation

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

Components:

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified:

May be fatal if swallowed and enters airways.

1,2,4-Trimethylbenzene:

May be harmful if swallowed and enters airways.

chlorobenzene:

May be harmful if swallowed and enters airways.

xylenes:

May be fatal if swallowed and enters airways.

cumene:

May be fatal if swallowed and enters airways.

ethylbenzene:
May be fatal if swallowed and enters airways.

Information on likely routes of exposure

Product:

Inhalation	:	Remarks: May cause respiratory irritation.
Skin contact	:	Remarks: Causes skin irritation.
Eye contact	:	Remarks: Causes serious eye irritation.
Ingestion	:	Remarks: May be fatal if swallowed and enters airways.

Further information

Product:

Remarks	:	None known.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

1,2,4-Trimethylbenzene:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 7.72 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Daphnia magna (Water flea)): 3.6 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Chlorella pyrenoidosa): 2.356 mg/l Exposure time: 96 h

chlorobenzene:

Toxicity to fish	:	LC50 (goldfish): 73.03 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (daphnid): 4.3 mg/l Exposure time: 48 h
Toxicity to fish (Chronic toxicity)	:	NOEC (Danio rerio (zebra fish)): 4.8 mg/l Exposure time: 28 d Remarks: Published study
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.32 mg/l Exposure time: 16 d Remarks: Published study

cumene:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 4.8 mg/l
Exposure time: 96 h

LC50 (Fish): 4.918 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.14 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): 2.01 mg/l
Exposure time: 72 h

NOEC (Desmodesmus subspicatus (green algae)): 1.49 mg/l
Exposure time: 72 h

Toxicity to fish (Chronic toxicity) : NOEC (Danio rerio (zebra fish)): 0.38 mg/l
Exposure time: 28 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.35 mg/l
Exposure time: 21 d

ethylbenzene:

Toxicity to fish : LC50 (Cyprinodon variegatus (sheepshead minnow)): 275 mg/l
Exposure time: 96 h

LC50 (Pimephales promelas (fathead minnow)): 42.3 - 48.5 mg/l
Exposure time: 96 h

LC50 (Poecilia reticulata (guppy)): 97.1 mg/l
Exposure time: 96 h

Persistence and degradability

Components:

1,2,4-Trimethylbenzene:

Biodegradability : Concentration: 100 mg/l
Biodegradation: 8 - 14 %
Exposure time: 28 d

chlorobenzene:

Biochemical Oxygen Demand (BOD) : BOD-5:
30 mg/g

Chemical Oxygen Demand (COD)	:	410 mg/g
BOD/COD	:	BOD/COD: 7.32 %
ThOD	:	2,060 mg/g

xylenes:

Biodegradability : Result: Readily biodegradable.

cumene:

Biodegradability : Concentration: 3 mg/l
Result: Readily biodegradable
Biodegradation: 70 %
Exposure time: 20 d

Chemical Oxygen Demand (COD)	:	1,130 mg/g
ThOD	:	3,500 mg/g

ethylbenzene:

Biodegradability : Result: Readily biodegradable.

Bioaccumulative potential

Components:

1,2,4-Trimethylbenzene:

Bioaccumulation : Bioconcentration factor (BCF): 33 - 275
Concentration: 0.2 mg/l

xylenes:

Partition coefficient: n-octanol/water	:	Pow: 1,320 - 1,580 log Pow: 3.12 - 3.20

cumene:

Bioaccumulation : Bioconcentration factor (BCF): 94.69

ethylbenzene:

Partition coefficient: n-octanol/water	:	log Pow: 3.15

Mobility in soil

Components:

chlorobenzene:

Distribution among environmental compartments : log Koc: 2.4

ethylbenzene:

Distribution among environmental compartments : log Koc: 3.12

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with local regulations.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No.	:	UN 1139
Proper shipping name	:	Coating solution
Class	:	3
Packing group	:	III
Labels	:	Class 3 - Flammable liquids
Packing instruction (cargo aircraft)	:	366
Packing instruction (passenger aircraft)	:	355

IMDG-Code

UN number	:	UN 1139
Proper shipping name	:	COATING SOLUTION
Class	:	3
Packing group	:	III
Labels	:	3
EmS Code	:	F-E, S-E
Marine pollutant	:	yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR

UN/ID/NA number : NA 1993

Proper shipping name	:	Combustible liquid, n.o.s.
Class	:	CBL
Packing group	:	III
Labels	:	None
ERG Code	:	128
Marine pollutant	:	no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
chlorobenzene	108-90-7	100	3571
ethylbenzene	100-41-4	100	100 (F003)

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components	CAS-No.	Component TPQ (lbs)

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)
Skin corrosion or irritation
Serious eye damage or eye irritation
Specific target organ toxicity (single or repeated exposure)
Aspiration hazard

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

1,2,4-Trimethylbenzene	95-63-6
chlorobenzene	108-90-7
xylenes	1330-20-7
ethylbenzene	100-41-4

California Prop. 65

WARNING: This product can expose you to chemicals including cumene, ethylbenzene, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

The ingredients of this product are reported in the following inventories:

TCSI : On the inventory, or in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

AICS : On the inventory, or in compliance with the inventory

DSL : All components of this product are on the Canadian DSL

ENCS : On the inventory, or in compliance with the inventory

ISHL : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

NZIoC : Not listed

TSCA list

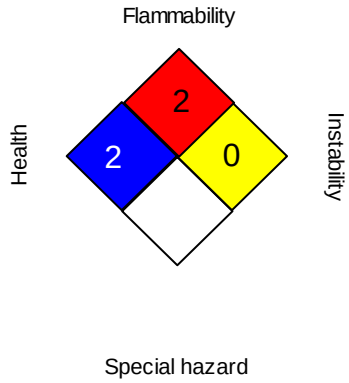
No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

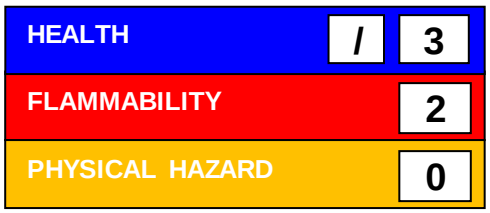
SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

ACGIH	:	US. ACGIH Threshold Limit Values
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / STEL	:	short-term exposure limit
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA P0 / TWA	:	8-hour time weighted average
OSHA P0 / STEL	:	Short-term exposure limit
OSHA Z-1 / TWA	:	8-hour time weighted average
OSHA Z-1 / STEL	:	15-minute occupational exposure limit

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime

Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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The information provided in this Material 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.

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