

**Chlorinated Polyolefin 730-1 (20% Solids in Aromatic 100)**

Version	Revision Date:	SDS Number:	Date of last issue: -
2.0	10/12/2017	150000049021	Date of first issue: 09/06/2016
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**SECTION 1. IDENTIFICATION**

Product name : Chlorinated Polyolefin 730-1 (20% Solids in Aromatic 100)

Product code : S2493803

**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

Germ cell mutagenicity : Category 1B

Carcinogenicity : Category 1B

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

Aspiration hazard : Category 1

**GHS label elements**

Hazard pictograms :



Signal Word : Danger

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Hazard Statements : H226 Flammable liquid and vapor.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H340 May cause genetic defects.  
H350 May cause cancer.

Precautionary Statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
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.  
P261 Avoid breathing 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/ protective clothing/ eye protection/ face protection.

**Response:**

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
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.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P331 Do NOT induce vomiting.  
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.

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P405 Store locked up.

**Disposal:**

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

**Other hazards**

&lt;\*\* Phrase language not available: [ Z8 ] CUST - EMN-OBSOLETE \*\*&gt;

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Ingredients**

Chemical name	CAS-No.	Concentration (% w/w)
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified	64742-95-6	> 50
1,2,4-Trimethylbenzene	95-63-6	25.6
modified chlorinated polyolefin	68609-36-9	> 18
epoxidized oil	61789-01-3	< 3
chlorobenzene	108-90-7	< 3
xylene	1330-20-7	< 3
cumene	98-82-8	< 3
ethylbenzene	100-41-4	< 1

**SECTION 4. FIRST AID MEASURES**

- |   |   |
|---|---|
| If inhaled  | : Remove to fresh air.<br>If not breathing, give artificial respiration.<br>If breathing is difficult, give oxygen.<br>Get immediate medical advice/ attention.   |
| In case of skin contact                                     | : Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.<br>Get medical advice/ attention.<br>Wash contaminated clothing before reuse.<br>Destroy or thoroughly clean contaminated shoes.   |
| In case of eye contact                                      | : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.<br>Get medical advice/ attention.  |
| Most important symptoms and effects, both acute and delayed | : May be fatal if swallowed and enters airways.<br>Causes skin irritation.<br>Causes serious eye irritation.<br>May cause respiratory irritation.<br>May be fatal if swallowed and enters airways.<br>Causes skin irritation.<br>Causes serious eye irritation.<br>May cause respiratory irritation.<br>May cause genetic defects.<br>May cause cancer. |

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Notes to physician : Treat symptomatically.

**SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Use water spray to extinguish.  
Dry chemical  
Carbon dioxide (CO2)  
Foam

Unsuitable extinguishing media : None known.

Hazardous combustion products : No hazardous combustion products are known

Further information : Flammable liquid and vapor.  
Material will float and may ignite on surface of water.

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).

**SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Avoid breathing mist or vapors.  
Avoid contact with skin, eyes and clothing.  
Do not taste or swallow.  
Use only with adequate ventilation.  
Wash thoroughly after handling.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Ingredients with workplace control parameters**

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Ingredients	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
xylene	1330-20-7	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 435 mg/m3	OSHA Z-1
		TWA	100 ppm 435 mg/m3	OSHA P0
		STEL	125 ppm 545 mg/m3	OSHA P0
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
xylene	1330-20-7	TWA	100 ppm 435 mg/m3	ACGIH
		STEL	150 ppm	OSHA Z-1

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			655 mg/m3	
		STEL	150 ppm	ACGIH
		TWA	100 ppm	OSHA Z-1
			435 mg/m3	
		TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
		STEL	150 ppm	OSHA P0
			655 mg/m3	
		TWA	100 ppm	OSHA P0
			435 mg/m3	
cumene	98-82-8	TWA	50 ppm	ACGIH
		TWA	50 ppm	NIOSH REL
			245 mg/m3	
		TWA	50 ppm	OSHA Z-1
			245 mg/m3	
		TWA	50 ppm	OSHA P0
			245 mg/m3	
ethylbenzene	100-41-4	TWA	20 ppm	ACGIH
		TWA	100 ppm	NIOSH REL
			435 mg/m3	
		ST	125 ppm	NIOSH REL
			545 mg/m3	
		TWA	100 ppm	OSHA Z-1
			435 mg/m3	
		TWA	100 ppm	OSHA P0
			435 mg/m3	
		STEL	125 ppm	OSHA P0
			545 mg/m3	

## Hazardous components without workplace control parameters

Ingredients	CAS-No.
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified	64742-95-6

**Engineering measures** : Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

## Personal protective equipment

Respiratory protection : Wear respiratory protection.

Hand protection

Remarks : Wash hands after handling.

Eye protection : Safety glasses with side-shields

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

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: liquid
Color	: yellow
Odor	: aromatic
Odor Threshold	: not determined
pH	: not determined
Melting point/range	:
Boiling point/boiling range	: 155 °C
Flash point	: 40.0 °C Method: Pensky-Martens closed cup
Evaporation rate	: not determined
Upper explosion limit	: not determined
Vapor pressure	: not determined
Relative vapor density	: not determined
Relative density	: < 1
Solubility(ies)	
Water solubility	: negligible
Partition coefficient: n-octanol/water	: No data available
Autoignition temperature	: not determined
Decomposition temperature	: 300 °C Method: HPDSC
Viscosity	
Viscosity, dynamic	: not determined
Viscosity, kinematic	: not determined
Explosive properties	: No data available
Oxidizing properties	: No data available

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	: Stable
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: None known.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Strong oxidizing agents
Hazardous decomposition products	: Carbon dioxide (CO <sub>2</sub> ) 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: 40.15 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method
Acute dermal toxicity	: Remarks: No data available
	Acute toxicity estimate: 3,281 mg/kg Method: Calculation method

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

Acute oral toxicity	: LD50 Oral (Rat): > 5,000 mg/kg
Acute inhalation toxicity	: LC50 (Rat): > 76.3 mg/l Exposure time: 4 h
Acute dermal toxicity	: LD50 Dermal (Rabbit): > 2,000 mg/kg



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**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 inhalation toxicity : LC50 (Rat): 29 mg/l  
Exposure time: 4 h

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.

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**Product:**

Remarks: No data available

**Ingredients:****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: No data available

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

Species: Rabbit  
Result: none

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**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

**Ingredients:****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

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**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**

May cause genetic defects.

**Ingredients:****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

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**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**

May cause cancer.

**Product:**

Remarks: This information is not available.

**IARC**

Group 2B: Possibly carcinogenic to humans

cumene 98-82-8

ethylbenzene 100-41-4

**OSHA**

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

**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

**Ingredients:****chlorobenzene:**

Routes of exposure: Inhalation

Target Organs: Narcotic effects

**xylenes:**

Routes of exposure: Inhalation

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Target Organs: respiratory tract irritation

**ethylbenzene:**

Routes of exposure: Inhalation

Target Organs: Narcotic effects

**STOT-repeated exposure**

Not classified based on available information.

**Product:**

Remarks: No data available

**Ingredients:****chlorobenzene:**

Routes of exposure: Oral

Assessment: Based on available data, the classification criteria are not met.

**Repeated dose toxicity****Ingredients:****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/m<sup>3</sup>

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/m<sup>3</sup>

Application Route: Inhalation

**Aspiration toxicity**

May be fatal if swallowed and enters airways.

**Product:**

No data available

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**Ingredients:****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: Causes damage to organs.

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Ingredients:****Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified:**

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 8.2 mg/l Exposure time: 96 h
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Toxicity to daphnia and other	:	EC50 (Daphnia magna (Water flea)): 4.5 mg/l
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aquatic invertebrates Exposure time: 48 h

Toxicity to algae : EC50 (*Selenastrum capricornutum* (green algae)): 3.1 mg/l  
Exposure time: 72 h

Toxicity to daphnia and other : EC50 (*Daphnia magna* (Water flea)): 10 mg/l  
aquatic invertebrates  
(Chronic toxicity) Exposure time: 21 d

### 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 : LC50 (*Daphnia magna* (Water flea)): 3.6 mg/l  
aquatic invertebrates  
Exposure time: 48 h

Toxicity to algae : 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 : EC50 (daphnid): 4.3 mg/l  
aquatic invertebrates  
Exposure time: 48 h

Toxicity to fish (Chronic toxic- : NOEC (*Danio rerio* (zebra fish)): 4.8 mg/l  
ity) Exposure time: 28 d  
Remarks: Published study

Toxicity to daphnia and other : NOEC (*Daphnia magna* (Water flea)): 0.32 mg/l  
aquatic invertebrates  
(Chronic toxicity) Exposure time: 16 d  
Remarks: Published study

### xylenes:

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): 2.6 mg/l  
Exposure time: 96 h  
Remarks: Read-across from a similar material

Toxicity to daphnia and other : EC50 (*Daphnia magna* (Water flea)): > 3.4 mg/l  
aquatic invertebrates  
Exposure time: 24 h

Toxicity to algae : EC50 (*Selenastrum capricornutum* (green algae)): 2.2 mg/l  
Exposure time: 72 h

NOEC: (*Selenastrum capricornutum* (green algae)): 0.44 mg/l  
Exposure time: 72 h

Toxicity to fish (Chronic toxic- : NOEC (*Oncorhynchus mykiss* (rainbow trout)): > 1.3 mg/l  
ity) Exposure time: 56 d  
GLP: no



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2.0	10/12/2017	150000049021	Date of first issue: 09/06/2016
PRD		SDSUS / Z8 / 0001	N44/0038363468/0004252919

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.96 mg/l  
Exposure time: 7 d

**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 : ErC50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): 2.01 mg/l  
Exposure time: 72 h

NOEC (Desmodesmus subspicatus (Scenedesmus subspicatus)): 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****Ingredients:****Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified:**

Biodegradability : Concentration: 20 mg/l  
Result: Inherently biodegradable.  
Biodegradation: 74 %  
Exposure time: 28 d

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**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****Ingredients:****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:**

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Bioaccumulation : Bioconcentration factor (BCF): 94.69

**ethylbenzene:**

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

**Mobility in soil****Ingredients:****chlorobenzene:**

Distribution among environmental compartments : log Koc: 2.4

**ethylbenzene:**

Distribution among environmental compartments : log Koc: 3.12

**Other adverse effects**

No data available

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

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

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**SECTION 14. TRANSPORT INFORMATION****International Regulations****IATA-DGR**

UN/ID No.	: UN 1139
Proper shipping name	: Coating solution
Class	: 3
Packing group	: III
Labels	: 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, <u>S-E</u>

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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

**SECTION 15. REGULATORY INFORMATION****EPCRA - Emergency Planning and Community Right-to-Know****CERCLA Reportable Quantity**

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
chlorobenzene	108-90-7	100	1,000

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Fire Hazard  
Acute Health Hazard  
Chronic Health 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	20 - 30 %
chlorobenzene	108-90-7	1 - 5 %
xylenes	1330-20-7	1 - 5 %
cumene	98-82-8	1 - 5 %
ethylbenzene	100-41-4	0.1 - 1 %

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

CH INV	: On the inventory, or in compliance with the inventory
DSL	: All components of this product are on the Canadian DSL
AICS	: On the inventory, or in compliance with the inventory

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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

TSCA : On TSCA Inventory

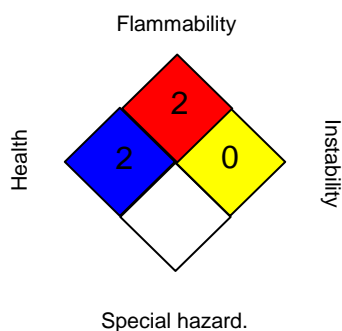
**TSCA list**

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****Full text of other abbreviations**

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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N44/0038363468/0004252919**Further information****NFPA:****HMIS® IV:**

HEALTH	*	3
FLAMMABILITY		2
PHYSICAL HAZARD		0

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.

Revision Date : 10/12/2017

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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