

Safety Data Sheet

acc. to OSHA HCS

Printing date 11/16/2017

Reviewed on 11/16/2017

1 Identification

- **Product identifier**
- **Trade name:** Steam Cracked Liquids
- **Article number:** EXX193
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Aqua Solutions, Inc.
6913 Highway 225
DEER PARK, TX 77536
USA
800-256-2586
- **Information department:**
Technical Coordinator
Sherman Nelson sherman@aquasolutions.org
- **Emergency telephone number:**
Chemtrec: 800-424-9300
Canutec: 613-996-6666



2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS06 Skull and crossbones

Acute Tox. 3 H311 Toxic in contact with skin.



GHS08 Health hazard

Muta. 1B H340 May cause genetic defects.

Carc. 1A H350 May cause cancer.

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- **Label elements**

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

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Trade name: **Steam Cracked Liquids**

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· **Hazard pictograms**· **Signal word** *Danger*· **Hazard-determining components of labeling:**

Benzene
 Toluene
 Xylene (Xylol)
 Ethylbenzene, Anhydrous, 99.8%
 Hexane
 Naphthalene
 Cyclohexane
 1,2,4-Trimethylbenzene

· **Hazard statements**

Highly flammable liquid and vapor.
 Toxic in contact with skin.
 Causes skin irritation.
 Causes serious eye irritation.
 May cause genetic defects.
 May cause cancer.
 Suspected of damaging fertility or the unborn child.
 May cause drowsiness or dizziness.
 Causes damage to organs through prolonged or repeated exposure.
 May be fatal if swallowed and enters airways.

· **Precautionary statements**

Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 Ground/bond container and receiving equipment.
 Use explosion-proof electrical/ventilating/lighting/equipment.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Do not breathe dust/fume/gas/mist/vapors/spray.
 Wash thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves/protective clothing/eye protection/face protection.
 If swallowed: Immediately call a poison center/doctor.
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 IF exposed or concerned: Get medical advice/attention.
 Call a poison center/doctor if you feel unwell.
 Get medical advice/attention if you feel unwell.
 Specific treatment (see on this label).
 Do NOT induce vomiting.
 If skin irritation occurs: Get medical advice/attention.
 If eye irritation persists: Get medical advice/attention.
 Take off immediately all contaminated clothing and wash it before reuse.

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In case of fire: Use for extinction: CO₂, powder or water spray.

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**

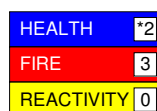


Health = 2

Fire = 3

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = *2

Fire = 3

Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 108-88-3	Toluene	18.0%
CAS: 71-43-2	Benzene	12.1%
CAS: 91-20-3	Naphthalene	6.0%
CAS: 100-41-4	Ethylbenzene, Anhydrous, 99.8%	6.0%
CAS: 95-63-6	1,2,4-Trimethylbenzene	3.0%
CAS: 110-82-7	Cyclohexane	2.94%
CAS: 1330-20-7	Xylene (Xylol)	2.94%
CAS: 110-54-3	Hexane	2.88%
CAS: 98-82-8	cumene	0.54%

· **Table of Nonhazardous Ingredients**

CAS: 1321-94-4	Merthylnaphtalene	29.9%
CAS: 28804-88-8	dimethylnaphthalene	4.0%

4 First-aid measures

· **Description of first aid measures**

· **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.

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- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· PAC-1:

CAS: 108-88-3	Toluene	67 ppm
CAS: 71-43-2	Benzene	52 ppm
CAS: 91-20-3	Naphthalene	15 ppm
CAS: 100-41-4	Ethylbenzene, Anhydrous, 99.8%	33 ppm
CAS: 95-63-6	1,2,4-Trimethylbenzene	140 ppm
CAS: 110-82-7	Cyclohexane	300 ppm
CAS: 1330-20-7	Xylene (Xylol)	130 ppm
CAS: 110-54-3	Hexane	260 ppm
CAS: 98-82-8	cumene	50 ppm

· PAC-2:

CAS: 108-88-3	Toluene	560 ppm
CAS: 71-43-2	Benzene	800 ppm
CAS: 91-20-3	Naphthalene	83 ppm
CAS: 100-41-4	Ethylbenzene, Anhydrous, 99.8%	1100* ppm

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CAS: 95-63-6	1,2,4-Trimethylbenzene	360 ppm
CAS: 110-82-7	Cyclohexane	1700* ppm
CAS: 1330-20-7	Xylene (Xylol)	920* ppm
CAS: 110-54-3	Hexane	2900* ppm
CAS: 98-82-8	cumene	300 ppm

· **PAC-3:**

CAS: 108-88-3	Toluene	3700* ppm
CAS: 71-43-2	Benzene	4000* ppm
CAS: 91-20-3	Naphthalene	500 ppm
CAS: 100-41-4	Ethylbenzene, Anhydrous, 99.8%	1800* ppm
CAS: 95-63-6	1,2,4-Trimethylbenzene	480 ppm
CAS: 110-82-7	Cyclohexane	10000** ppm
CAS: 1330-20-7	Xylene (Xylol)	2500* ppm
CAS: 110-54-3	Hexane	8600** ppm
CAS: 98-82-8	cumene	730 ppm

7 Handling and storage

· **Handling:**· **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.· **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· **Conditions for safe storage, including any incompatibilities**· **Storage:**· **Requirements to be met by storerooms and receptacles:** Store in a cool location.· **Information about storage in one common storage facility:** Not required.· **Further information about storage conditions:**

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.· **Control parameters**· **Components with limit values that require monitoring at the workplace:****CAS: 108-88-3 Toluene**

PEL	Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift
REL	Short-term value: 560 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm
TLV	Long-term value: 75 mg/m ³ , 20 ppm BEI

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CAS: 71-43-2 Benzene

PEL Short-term value: 15* mg/m³, 5* ppm
 Long-term value: 3* mg/m³, 1* ppm
 *table Z-2 for exclusions in 29CFR1910.1028(d)

REL Short-term value: 1 ppm
 Long-term value: 0.1 ppm
 See Pocket Guide App. A

TLV Short-term value: 8 mg/m³, 2.5 ppm
 Long-term value: 1.6 mg/m³, 0.5 ppm
 Skin; BEI

CAS: 91-20-3 Naphthalene

PEL Long-term value: 50 mg/m³, 10 ppm

REL Short-term value: 75 mg/m³, 15 ppm
 Long-term value: 50 mg/m³, 10 ppm

TLV Long-term value: 52 mg/m³, 10 ppm
 Skin; BEI

CAS: 100-41-4 Ethylbenzene, Anhydrous, 99.8%

PEL Long-term value: 435 mg/m³, 100 ppm

REL Short-term value: 545 mg/m³, 125 ppm
 Long-term value: 435 mg/m³, 100 ppm

TLV Long-term value: 87 mg/m³, 20 ppm
 BEI

CAS: 95-63-6 1,2,4-Trimethylbenzene

REL Long-term value: 125 mg/m³, 25 ppm

TLV Long-term value: 123 mg/m³, 25 ppm

CAS: 110-82-7 Cyclohexane

PEL Long-term value: 1050 mg/m³, 300 ppm

REL Long-term value: 1050 mg/m³, 300 ppm

TLV Long-term value: 344 mg/m³, 100 ppm

CAS: 1330-20-7 Xylene (Xylol)

PEL Long-term value: 435 mg/m³, 100 ppm

REL Short-term value: 655 mg/m³, 150 ppm
 Long-term value: 435 mg/m³, 100 ppm

TLV Short-term value: 651 mg/m³, 150 ppm
 Long-term value: 434 mg/m³, 100 ppm
 BEI

CAS: 110-54-3 Hexane

PEL Long-term value: 1800 mg/m³, 500 ppm

REL Long-term value: 180 mg/m³, 50 ppm

TLV Long-term value: 176 mg/m³, 50 ppm
 Skin; BEI

CAS: 98-82-8 cumene

PEL Long-term value: 245 mg/m³, 50 ppm
 Skin

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REL	Long-term value: 245 mg/m ³ , 50 ppm Skin
TLV	Long-term value: (246) NIC-0.5 mg/m ³ , (50) NIC-0.1 ppm NIC-A2

Ingredients with biological limit values:
CAS: 108-88-3 Toluene

BEI	0.02 mg/L LD50 Intraperitoneal: blood Time: prior to last shift of workweek LD50: Toluene
	0.03 mg/L LD50 Intraperitoneal: urine Time: end of shift LD50: Toluene
	0.3 mg/g creatinine LD50 Intraperitoneal: urine Time: end of shift LD50: o-Cresol with hydrolysis (background)

CAS: 71-43-2 Benzene

BEI	25 µg/g creatinine LD50 Intraperitoneal: urine Time: end of shift Parameter LD50: S-Phenylmercapturic acid (background)
	500 µg/g creatinine LD50 Intraperitoneal: urine Time: end of shift LD50: t,t-Muconic acid (background)

CAS: 100-41-4 Ethylbenzene, Anhydrous, 99.8%

BEI	0.7 g/g creatinine LD50 Intraperitoneal: urine Time: end of shift at end of workweek LD50: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)
	- LD50 Intraperitoneal: end-exhaled air Time: not critical LD50: Ethyl benzene (semi-quantitative)

CAS: 1330-20-7 Xylene (Xylol)

BEI	1.5 g/g creatinine LD50 Intraperitoneal: urine Time: end of shift LD50: Methylhippuric acids
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CAS: 110-54-3 Hexane

BEI	0.4 mg/L LD50 Intraperitoneal: urine Time: end of shift at end of workweek LD50: 2,5-Hexanedione without hydrolysis
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· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Liquid

Color: Brown

· **Odor:** Aromatic

· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 80 °C (176 °F)

· **Flash point:** 5 °C (41 °F)

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· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	430 °C (806 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	1.2 Vol %
Upper:	8 Vol %
· Vapor pressure at 20 °C (68 °F):	100 hPa (75 mm Hg)
· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	48.4 %
VOC content:	48.40 %
	484.0 g/l / 4.04 lb/gal
Solids content:	6.0 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· LD/LC50 values that are relevant for classification:		
ATE (Acute Toxicity Estimate)		
Oral	LD50	5,263 mg/kg (rat)

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Dermal	LD50	393 mg/kg
Inhalative	LC50/4 h	92.1 mg/l
CAS: 108-88-3 Toluene		
Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	12,124 mg/kg (rabbit)
Inhalative	LC50/4 h	5,320 mg/l (mouse)
CAS: 71-43-2 Benzene		
Oral	LD50	4,894 mg/kg (rat)
Dermal	LD50	48 mg/kg (mouse)
Inhalative	LC50/4 h	9,980 mg/l (mouse)
CAS: 91-20-3 Naphthalene		
Oral	LD50	490 mg/kg (rat)
Dermal	LD50	5,000 mg/kg (rat)
CAS: 100-41-4 Ethylbenzene, Anhydrous, 99.8%		
Dermal	LD50	15,433 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (ATE)
CAS: 95-63-6 1,2,4-Trimethylbenzene		
Oral	LD50	6,000 mg/kg (rat)
Inhalative	LC50/4 h	11 mg/l (ATE)
CAS: 110-82-7 Cyclohexane		
Oral	LD50	12,705 mg/kg (rat)
CAS: 110-54-3 Hexane		
Oral	LD50	25,000 mg/kg (rat)
Inhalative	LC50/4 h	48,000 mg/l (rat)

· **Primary irritant effect:**

· **on the skin:** Irritant to skin and mucous membranes.

· **on the eye:** Irritating effect.

· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Toxic

Irritant

The product can cause inheritable damage.

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

CAS: 108-88-3	Toluene	3
CAS: 71-43-2	Benzene	1
CAS: 91-20-3	Naphthalene	2B
CAS: 100-41-4	Ethylbenzene, Anhydrous, 99.8%	2B
CAS: 1330-20-7	Xylene (Xylol)	3
CAS: 98-82-8	cumene	2B

· **NTP (National Toxicology Program)**

CAS: 71-43-2	Benzene	K
CAS: 91-20-3	Naphthalene	R

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CAS: 98-82-8 cumene

R

· **OSHA-Ca (Occupational Safety & Health Administration)**

CAS: 71-43-2 Benzene

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
 Water hazard class 3 (Self-assessment): extremely hazardous for water
 Do not allow product to reach ground water, water course or sewage system, even in small quantities.
 Danger to drinking water if even extremely small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
 Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|----------------------------------|---|
| · UN-Number | |
| · DOT, IMDG, IATA | UN1993 |
| · UN proper shipping name | |
| · DOT | Flammable liquids, n.o.s. (Toluene, Benzene, Hexanes, Ethylbenzene) |
| · IMDG | FLAMMABLE LIQUID, N.O.S. (TOLUENE, BENZENE, HEXANES, ETHYLBENZENE, NAPHTHALENE, CRUDE, 1,2,4-Trimethylbenzene, CYCLOHEXANE, ISOPROPYLBENZENE), MARINE POLLUTANT |
| · IATA | FLAMMABLE LIQUID, N.O.S. (TOLUENE, BENZENE, HEXANES, ETHYLBENZENE) |

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· **Transport hazard class(es)**· **DOT**· **Class**

3 Flammable liquids

· **Label**

3

· **IMDG**· **Class**

3 Flammable liquids

· **Label**

3

· **IATA**· **Class**

3 Flammable liquids

· **Label**

3 (6.1)

· **Packing group**· **DOT, IMDG, IATA**

II

· **Environmental hazards:**Product contains environmentally hazardous substances:
Naphthalene, Cyclohexane· **Marine pollutant:**

Symbol (fish and tree)

· **Special precautions for user**

Warning: Flammable liquids

· **Danger code (Kemler):**

33

· **EMS Number:**

F-E, S-E

· **Stowage Category**

B

· **Transport in bulk according to Annex II of
MARPOL73/78 and the IBC Code**

Not applicable.

· **Transport/Additional information:**· **DOT**· **Quantity limitations**

On passenger aircraft/rail: 1 L

On cargo aircraft only: 60 L

· **IMDG**· **Limited quantities (LQ)**

1L

· **Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

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· **UN "Model Regulation":** UN 1993 FLAMMABLE LIQUIDS, N.O.S. (TOLUENE, BENZENE, HEXANES, ETHYLBENZENE), 3, II

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

CAS: 108-88-3	Toluene
CAS: 71-43-2	Benzene
CAS: 91-20-3	Naphthalene
CAS: 100-41-4	Ethylbenzene, Anhydrous, 99.8%
CAS: 95-63-6	1,2,4-Trimethylbenzene
CAS: 110-82-7	Cyclohexane
CAS: 1330-20-7	Xylene (Xylol)
CAS: 110-54-3	Hexane
CAS: 98-82-8	cumene

· **TSCA (Toxic Substances Control Act):**

Merthyl-naphthalene
Toluene
Benzene
Naphthalene
Ethylbenzene, Anhydrous, 99.8%
dimethylnaphthalene
1,2,4-Trimethylbenzene
Cyclohexane
Xylene (Xylol)
Hexane
cumene

· **TSCA new (21st Century Act) (Substances not listed)**

· **Proposition 65**

· **Chemicals known to cause cancer:**

CAS: 71-43-2	Benzene
CAS: 91-20-3	Naphthalene
CAS: 100-41-4	Ethylbenzene, Anhydrous, 99.8%
CAS: 98-82-8	cumene

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

CAS: 71-43-2	Benzene
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· **Chemicals known to cause developmental toxicity:**

CAS: 108-88-3	Toluene
CAS: 71-43-2	Benzene

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

CAS: 108-88-3	Toluene	II
CAS: 71-43-2	Benzene	A, K/L
CAS: 91-20-3	Naphthalene	C, CBD
CAS: 100-41-4	Ethylbenzene, Anhydrous, 99.8%	D
CAS: 95-63-6	1,2,4-Trimethylbenzene	II
CAS: 110-82-7	Cyclohexane	I
CAS: 1330-20-7	Xylene (Xylol)	I
CAS: 110-54-3	Hexane	II
CAS: 98-82-8	cumene	D, CBD

· **TLV (Threshold Limit Value established by ACGIH)**

CAS: 108-88-3	Toluene	A4
CAS: 71-43-2	Benzene	A1
CAS: 91-20-3	Naphthalene	A4
CAS: 100-41-4	Ethylbenzene, Anhydrous, 99.8%	A3
CAS: 1330-20-7	Xylene (Xylol)	A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

CAS: 71-43-2	Benzene
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· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS02 GHS06 GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

Benzene
Toluene
Xylene (Xylol)
Ethylbenzene, Anhydrous, 99.8%
Hexane
Naphthalene
Cyclohexane
1,2,4-Trimethylbenzene

· **Hazard statements**

Highly flammable liquid and vapor.
Toxic in contact with skin.
Causes skin irritation.
Causes serious eye irritation.
May cause genetic defects.
May cause cancer.

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Suspected of damaging fertility or the unborn child.

May cause drowsiness or dizziness.

Causes damage to organs through prolonged or repeated exposure.

May be fatal if swallowed and enters airways.

· **Precautionary statements**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed: Immediately call a poison center/doctor.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed or concerned: Get medical advice/attention.

Call a poison center/doctor if you feel unwell.

Get medical advice/attention if you feel unwell.

Specific treatment (see on this label).

Do NOT induce vomiting.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Take off immediately all contaminated clothing and wash it before reuse.

In case of fire: Use for extinction: CO₂, powder or water spray.

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **National regulations:**

· **Additional classification according to Decree on Hazardous Materials:**

Carcinogenic hazardous material group III (dangerous).

· **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.

Exceptions can be made by the authorities in certain cases.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** Environment protection department.

· **Contact:**

· **Date of preparation / last revision**

11-16-2017: review SDS for accuracy. STN

Creation date for SDS 01-13-2016. STN

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Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 3: Acute toxicity – Category 3

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Muta. 1B: Germ cell mutagenicity – Category 1B

Carc. 1A: Carcinogenicity – Category 1A

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Asp. Tox. 1: Aspiration hazard – Category 1

US