

Safety Data Sheet

acc. to OSHA HCS

Printing date 11/16/2017

Reviewed on 11/16/2017

1 Identification

- **Product identifier**
- **Trade name:** PXA A9+
Blend 2
- **Article number:** EXX185
- **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. 3 H226 Flammable liquid and vapor.



GHS08 Health hazard

Muta. 1A H340 May cause genetic defects.

Carc. 1B H350 May cause cancer.

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



GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H335 May cause respiratory irritation.

- **Label elements**

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

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· **Hazard pictograms**



GHS02 GHS05 GHS07 GHS08

· **Signal word** *Danger*

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

*Solvent naphtha (petroleum), light arom.
m-Xylenol (2,4-Dimethylphenol)
1,2,4-Trimethylbenzene
Biphenyl
Naphthalene
Xylene (Xylol)
Solvent naphtha (petroleum), heavy arom.
1-Phenyl-1-(2,6-xylyl)ethane*

· **Hazard statements**

*Flammable liquid and vapor.
Harmful if inhaled.
Causes skin irritation.
Causes serious eye damage.
May cause genetic defects.
May cause cancer.
May cause respiratory irritation.
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.
Avoid breathing dust/fume/gas/mist/vapors/spray
Wash thoroughly after handling.
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.
Specific treatment (see on this label).
Do NOT induce vomiting.
If skin irritation occurs: Get medical advice/attention.
Take off 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.*

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

- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health = 3
Fire = 2
Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = *3
Fire = 2
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: 64742-95-6	Solvent naphtha (petroleum), light arom.	52.46%
CAS: 92-52-4	Biphenyl	18.04%
CAS: 95-63-6	1,2,4-Trimethylbenzene	16.78%
CAS: 64742-94-5	Solvent naphtha (petroleum), heavy arom.	13.12%
CAS: 1330-20-7	Xylene (Xylol)	10.0%
CAS: 105-67-9	m-Xylenol (2,4-Dimethylphenol)	4.51%
CAS: 81749-29-3	1-Phenyl-1-(2,6-xylyl)ethane	4.51%
CAS: 91-20-3	Naphthalene	1.33%
CAS: 98-82-8	cumene	0.64%

· **Table of Nonhazardous Ingredients**

CAS: 95-48-7	o-cresol	0.9%
CAS: 65-85-0	Benzoic Acid, Reagent ACS Grade	0.23%
CAS: 1330-20-7	Xylene (Xylol)	0.22%
CAS: 91-57-6	2-Methylnaphthalene, 97%	0.2%
CAS: 108-95-2	Phenol	0.09%

4 First-aid measures

- **Description of first aid measures**
- **General information:**
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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- In case of unconsciousness place patient stably in side position for transportation.*
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then 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:** Mouth respiratory protective device.

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).
Use neutralizing agent.
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: 92-52-4	Biphenyl	0.87 ppm
CAS: 95-63-6	1,2,4-Trimethylbenzene	140 ppm
CAS: 1330-20-7	Xylene (Xylol)	130 ppm
CAS: 105-67-9	m-Xylenol (2,4-Dimethylphenol)	6.9 mg/m ³
CAS: 91-20-3	Naphthalene	15 ppm
CAS: 98-82-8	cumene	50 ppm
CAS: 65-85-0	Benzoic Acid, Reagent ACS Grade	13 mg/m ³
CAS: 91-57-6	2-Methylnaphthalene, 97%	9 mg/m ³
CAS: 108-95-2	Phenol	15 ppm

- **PAC-2:**

CAS: 92-52-4	Biphenyl	9.6 ppm
CAS: 95-63-6	1,2,4-Trimethylbenzene	360 ppm

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CAS: 1330-20-7	Xylene (Xylol)	920* ppm
CAS: 105-67-9	m-Xylenol (2,4-Dimethylphenol)	76 mg/m ³
CAS: 91-20-3	Naphthalene	83 ppm
CAS: 98-82-8	cumene	300 ppm
CAS: 65-85-0	Benzoic Acid, Reagent ACS Grade	140 mg/m ³
CAS: 91-57-6	2-Methylnaphthalene, 97%	54 mg/m ³
CAS: 108-95-2	Phenol	23 ppm

· PAC-3:

CAS: 92-52-4	Biphenyl	300 ppm
CAS: 95-63-6	1,2,4-Trimethylbenzene	480 ppm
CAS: 1330-20-7	Xylene (Xylol)	2500* ppm
CAS: 105-67-9	m-Xylenol (2,4-Dimethylphenol)	460 mg/m ³
CAS: 91-20-3	Naphthalene	500 ppm
CAS: 98-82-8	cumene	730 ppm
CAS: 65-85-0	Benzoic Acid, Reagent ACS Grade	830 mg/m ³
CAS: 91-57-6	2-Methylnaphthalene, 97%	320 mg/m ³
CAS: 108-95-2	Phenol	200 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:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **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:**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

CAS: 92-52-4 Biphenyl

PEL	Long-term value: 1 mg/m ³ , 0.2 ppm
REL	Long-term value: 1 mg/m ³ , 0.2 ppm
TLV	Long-term value: 1.3 mg/m ³ , 0.2 ppm

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CAS: 95-63-6 1,2,4-TrimethylbenzeneREL Long-term value: 125 mg/m³, 25 ppmTLV Long-term value: 123 mg/m³, 25 ppm**CAS: 1330-20-7 Xylene (Xylol)**PEL Long-term value: 435 mg/m³, 100 ppmREL Short-term value: 655 mg/m³, 150 ppmLong-term value: 435 mg/m³, 100 ppmTLV Short-term value: 651 mg/m³, 150 ppmLong-term value: 434 mg/m³, 100 ppm

BEI

CAS: 91-20-3 NaphthalenePEL Long-term value: 50 mg/m³, 10 ppmREL Short-term value: 75 mg/m³, 15 ppmLong-term value: 50 mg/m³, 10 ppmTLV Long-term value: 52 mg/m³, 10 ppm

Skin; BEI

CAS: 98-82-8 cumenePEL Long-term value: 245 mg/m³, 50 ppm

Skin

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

Skin

TLV Long-term value: (246) NIC-0.5 mg/m³, (50) NIC-0.1 ppm

NIC-A2

· Ingredients with biological limit values:**CAS: 1330-20-7 Xylene (Xylol)**

BEI 1.5 g/g creatinine

LD50 Intraperitoneal: urine

Time: end of shift

LD50: Methylhippuric acids

· 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 skin.

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

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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:	Not determined.
Odor:	Aromatic
Odor threshold:	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	162 °C (323.6 °F)

· **Flash point:** 45 °C (113 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:**

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:	Not determined.
Upper:	Not determined.

· **Vapor pressure:** Not determined.

· **Density at 20 °C (68 °F):** 0.88 g/cm³ (7.3436 lbs/gal)

· **Relative density** Not determined.

· **Vapor density** Not determined.

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· 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:	81.1 %
VOC content:	81.09 %
	713.6 g/l / 5.96 lb/gl
Solids content:	18.8 %
· 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	4,481 mg/kg (rat)
Dermal	LD50	>3,840 mg/kg
Inhalative	LC50/4 h	>12.5 mg/l

CAS: 64742-95-6 Solvent naphtha (petroleum), light arom.

Oral	LD50	>6,800 mg/kg (rat)
Dermal	LD50	>3,400 mg/kg (rab)
Inhalative	LC50/4 h	>10.2 mg/l (rat)

CAS: 92-52-4 Biphenyl

Oral	LD50	2,140 mg/kg (rat)
Dermal	LD50	5,010 mg/kg (rabbit)

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

Oral	LD50	6,000 mg/kg (rat)
Inhalative	LC50/4 h	11 mg/l (ATE)

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CAS: 1330-20-7 Xylene (Xylol)

Oral	LD50	4,300 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (ATE)

CAS: 105-67-9 m-Xylenol (2,4-Dimethylphenol)

Oral	LD50	3,200 mg/kg (rat)
Dermal	LD50	1,040 mg/kg (rat)

CAS: 91-20-3 Naphthalene

Oral	LD50	490 mg/kg (rat)
Dermal	LD50	5,000 mg/kg (rat)

CAS: 95-48-7 o-cresol

Oral	LD50	121 mg/kg (rat)
Dermal	LD50	890 mg/kg (rabbit)

- **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

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

- **Carcinogenic categories**

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

CAS: 1330-20-7	Xylene (Xylol)	3
CAS: 91-20-3	Naphthalene	2B
CAS: 98-82-8	cumene	2B
CAS: 1330-20-7	Xylene (Xylol)	3
CAS: 108-95-2	Phenol	3

- **NTP (National Toxicology Program)**

CAS: 91-20-3	Naphthalene	R
CAS: 98-82-8	cumene	R

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

None of the ingredients is listed.

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 2 (Self-assessment): hazardous for water

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*Do not allow product to reach ground water, water course or sewage system.
Must not reach bodies of water or drainage ditch undiluted or unneutralized.
Danger to drinking water if even 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

- | | |
|--|---|
| <ul style="list-style-type: none"> · UN-Number · DOT, IMDG, IATA | <p style="text-align: center;">UN1993</p> |
| <ul style="list-style-type: none"> · UN proper shipping name · DOT · IMDG · IATA | <p><i>Flammable liquids, n.o.s. (Solvent naphtha (petroleum), light arom., 1,2,4-Trimethylbenzene, Xylenes, Solvent naphtha (petroleum), heavy arom.)</i></p> <p>FLAMMABLE LIQUID, N.O.S. (Solvent naphtha (petroleum), light arom., 1,2,4-Trimethylbenzene, XYLENES, Solvent naphtha (petroleum), heavy arom., Biphenyl, XYLENOLS, NAPHTHALENE, CRUDE, ISOPROPYLBENZENE, 2-Methylnaphthalene, 97%), MARINE POLLUTANT</p> <p><i>FLAMMABLE LIQUID, N.O.S. (Solvent naphtha (petroleum), light arom., 1,2,4-Trimethylbenzene, XYLENES, Solvent naphtha (petroleum), heavy arom.)</i></p> |
| <ul style="list-style-type: none"> · Transport hazard class(es) · DOT | <p style="text-align: center;">3</p> |
| <ul style="list-style-type: none"> · Class · Label | <p style="text-align: center;">3 Flammable liquids
3</p> |
| <ul style="list-style-type: none"> · IMDG | <p style="text-align: center;">3</p> |
| <ul style="list-style-type: none"> · Class | <p style="text-align: center;">3 Flammable liquids</p> |

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· **Label** 3

· **IATA**



· **Class** 3 Flammable liquids

· **Label** 3

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

· **Environmental hazards:** Product contains environmentally hazardous substances: Biphenyl
· **Marine pollutant:** Yes
Symbol (fish and tree)

· **Special precautions for user** Warning: Flammable liquids
· **Danger code (Kemler):** 30
· **EMS Number:** F-E,S-E
· **Stowage Category** A

· **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: 60 L
On cargo aircraft only: 220 L

· **IMDG**
· **Limited quantities (LQ)** 5L
· **Excepted quantities (EQ)** Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

· **UN "Model Regulation":** UN 1993 FLAMMABLE LIQUIDS, N.O.S. (SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM., 1,2,4-TRIMETHYLBENZENE, XYLENES, SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM.), 3, III

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Sara**

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

CAS: 95-48-7	<i>o</i> -cresol
CAS: 108-95-2	Phenol

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

CAS: 92-52-4	Biphenyl
CAS: 95-63-6	1,2,4-Trimethylbenzene
CAS: 1330-20-7	Xylene (Xylol)

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CAS: 105-67-9	<i>m</i> -Xylenol (2,4-Dimethylphenol)
CAS: 91-20-3	Naphthalene
CAS: 95-48-7	<i>o</i> -cresol
CAS: 98-82-8	cumene
CAS: 1330-20-7	Xylene (Xylol)
CAS: 108-95-2	Phenol

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

Solvent naphtha (petroleum), light arom.

Biphenyl

1,2,4-Trimethylbenzene

Solvent naphtha (petroleum), heavy arom.

Xylene (Xylol)

m-Xylenol (2,4-Dimethylphenol)

Naphthalene

o-cresol

cumene

Benzoic Acid, Reagent ACS Grade

2-Methylnaphthalene, 97%

Phenol

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

CAS: 81749-29-3 | 1-Phenyl-1-(2,6-xylyl)ethane

· **Proposition 65**

· **Chemicals known to cause cancer:**

CAS: 91-20-3 | Naphthalene

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:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

CAS: 92-52-4	Biphenyl	SC
CAS: 95-63-6	1,2,4-Trimethylbenzene	II
CAS: 1330-20-7	Xylene (Xylol)	I
CAS: 91-20-3	Naphthalene	C, CBD
CAS: 95-48-7	<i>o</i> -cresol	C
CAS: 98-82-8	cumene	D, CBD
CAS: 65-85-0	Benzoic Acid, Reagent ACS Grade	D
CAS: 1330-20-7	Xylene (Xylol)	I
CAS: 91-57-6	2-Methylnaphthalene, 97%	I

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CAS: 108-95-2	Phenol	D, I
· TLV (Threshold Limit Value established by ACGIH)		
CAS: 1330-20-7	Xylene (Xylol)	A4
CAS: 91-20-3	Naphthalene	A4
CAS: 1330-20-7	Xylene (Xylol)	A4
CAS: 91-57-6	2-Methylnaphthalene, 97%	A4
CAS: 108-95-2	Phenol	A4

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

None of the ingredients is listed.

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

GHS02 GHS05 GHS07 GHS08

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

Solvent naphtha (petroleum), light arom.
m-Xylenol (2,4-Dimethylphenol)
 1,2,4-Trimethylbenzene
 Biphenyl
 Naphthalene
 Xylene (Xylol)
 Solvent naphtha (petroleum), heavy arom.
 1-Phenyl-1-(2,6-xylyl)ethane

· Hazard statements

Flammable liquid and vapor.
 Harmful if inhaled.
 Causes skin irritation.
 Causes serious eye damage.
 May cause genetic defects.
 May cause cancer.
 May cause respiratory irritation.
 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.
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Wash thoroughly after handling.
 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.

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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.

Specific treatment (see on this label).

Do NOT induce vomiting.

If skin irritation occurs: Get medical advice/attention.

Take off 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 12-23-2014.STN

11/16/2017 / -

· **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. 3: Flammable liquids – Category 3

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Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Muta. 1A: Germ cell mutagenicity – Category 1A
Carc. 1B: Carcinogenicity – Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Asp. Tox. 1: Aspiration hazard – Category 1

US