

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012. Date of issue: 04/30/2014 Revision date: 04/30/2014 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

: PENRAY TOTAL FUEL SYSTEM CLEANER Product name

Product code : 2216

Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Fuel system cleaner.

Details of the supplier of the safety data sheet

The Penray Companies, Inc. 440 Denniston Ct. 60090 Wheeling, IL T (800) 373-6729 rotto@penray.com

1.4. **Emergency telephone number**

Emergency number : (800) 373-6729

CHEMTREC (800) 424-9300

CHEMTREC International +1 (703) 527-3887 24 hr

SECTION 2: Hazards identification

Classification of the substance or mixture

GHS-US classification

Flammable Liquid 3 Skin irritation 2 Serious eye damage 1 Carcinogenicity 2 Specific target organ toxicity - Single exposure 3

Aspiration hazard 1

Label elements

GHS-US labelling

Signal word (GHS-US)

Hazard pictograms (GHS-US)



: Danger

GHS05





GHS02

Hazard statements (GHS-US) : Flammable liquid and vapor. Causes skin irritation. Causes serious eye damage. May cause

drowsiness or dizziness. May be fatal if swallowed and enters airways.

Precautionary statements (GHS-US) Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly

closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/eye protection/face protection. Wash hands thoroughly after handling. Avoid breathing gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. If on skin (or hair): Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

Substance

Not applicable



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Mixture

| Name | Product identifier | % | GHS-US classification |
|--|---------------------|---------|--|
| KEROSENE, petroleum | (CAS No) 8008-20-6 | 30 - 60 | Flam. Liq. 3 Skin Irrit. 2 STOT SE 3 Asp. Tox. 1 |
| Isopropyl alcohol | (CAS No) 67-63-0 | 15 - 40 | Flam. Liq. 2 Eye Irrit. 2A STOT SE 3 |
| Solvent naphtha, petroleum, light aromatic | (CAS No) 64742-95-6 | 7 - 13 | Asp. Tox. 1 |
| Alkylphenol polyoxyalkyl alkylamine | Proprietary | 7 - 13 | Eye Dam. 1 |
| Xylenes (o-, m-, p- isomers) | (CAS No) 1330-20-7 | 1 - 5 | Flam. Liq. 3 Acute Tox. 4 (Dermal, Inhalation) Skin Irrit. 2 |
| Benzene, 1,2,4-trimethyl- | (CAS No) 95-63-6 | 1 - 5 | Flam. Liq. 3 Acute Tox. 4 (Inhalation) Skin Irrit. 2 Eye Irrit. 2A STOT SE 3 |
| 1,3,5-Trimethylbenzene | (CAS No) 108-67-8 | 1 - 5 | Flam. Liq. 3 Skin Irrit. 2 Eye Irrit. 2A STOT SE 3 Asp. Tox. 1 |
| n-Propylbenzene | (CAS No) 103-65-1 | 1 - 5 | Flam. Liq. 3 STOT SE 3 Asp. Tox. 1 |
| Cumene | (CAS No) 98-82-8 | 0.1 - 1 | Flam. Liq. 3 Acute Tox. 4 (Oral) Carc. 2 |
| Naphthalene | (CAS No) 91-20-3 | 0.1 - 1 | Acute Tox. 4 (Oral, Dermal) Carc. 2 |

SECTION 4: First aid measures

Description of first aid measures

First-aid measures after inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical advice/attention if you feel unwell.

In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing First-aid measures after skin contact and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.

First-aid measures after eye contact In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.

First-aid measures after ingestion : If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.

Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation May cause drowsiness, dizziness and central nervous system depression. May cause respiratory tract irritation.

Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of Symptoms/injuries after skin contact

Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and Symptoms/injuries after eye contact tear production, with marked redness and swelling of the conjunctiva. May cause burns.

Symptoms/injuries after ingestion May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.

Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible)

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media : Powder, water spray, foam, carbon dioxide.

Unsuitable extinguishing media : Do not use a heavy water stream.

Special hazards arising from the substance or mixture 5.2

Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon.

Advice for firefighters

Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back. Use water spray to keep fire-exposed containers cool.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition.

6.2. Methods and material for containment and cleaning up

For containment

: Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up : Scoop up material and place in a disposal container. Provide ventilation.

6.3. Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Keep away from sources of ignition - No smoking. Avoid contact with skin and eyes. Avoid breathing gas/mist/vapors/spray. Do not swallow. Handle and open container with care. Use only non-sparking tools. When using do not eat, drink or smoke. Use only outdoors or in a well-ventilated area.

Hygiene measures : Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Keep out of the reach of children. Keep container tightly closed and in a well-ventilated place. Store locked up. Keep cool. Keep away from heat, sparks, and flame.

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| KEROSENE, petroleum (8008-20-6) | | |
|---------------------------------|-------------------|-----------|
| USA ACGIH | ACGIH TWA (mg/m³) | 200 mg/m³ |
| Isopropyl alcohol (67-63-0) | | |

| Isopropyi alcohol (67-63-0) | | |
|-----------------------------|------------------------|-----------|
| USA ACGIH | ACGIH TWA (ppm) | 200 ppm |
| USA ACGIH | ACGIH STEL (ppm) | 400 ppm |
| USA OSHA | OSHA PEL (TWA) (mg/m³) | 980 mg/m³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 400 ppm |

| Solvent naphtha, petroleum, light aromatic (64742-95-6) | | |
|---|----------------|-----------------|
| USA ACGIH | ACGIH TWA | Not applicable. |
| USA OSHA | OSHA PEL (TWA) | Not applicable. |

| Alkylphenol polyoxyalkyl alkylamine (Proprietary) | | |
|---|----------------|-----------------|
| USA ACGIH | ACGIH TWA | Not applicable. |
| USA OSHA | OSHA PEL (TWA) | Not applicable. |

| Xylenes (o-, m-, p- isomers) (1330-20-7) | | |
|--|------------------------|-----------|
| USA ACGIH | ACGIH TWA (ppm) | 100 ppm |
| USA ACGIH | ACGIH STEL (ppm) | 150 ppm |
| USA OSHA | OSHA PEL (TWA) (mg/m³) | 435 mg/m³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 100 ppm |

| Benzene, 1,2,4-trimethyl- (95-63-6) | | |
|-------------------------------------|-----------------|--------|
| USA ACGIH | ACGIH TWA (ppm) | 25 ppm |

| 1,3,5-Trimethylbenzene (108-67-8) | | |
|-----------------------------------|----------------|-----------------|
| USA ACGIH | ACGIH TWA | Not applicable. |
| USA OSHA | OSHA PEL (TWA) | Not applicable. |

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| n-Propylbenzene (103-65-1) | | |
|----------------------------|----------------|-----------------|
| USA ACGIH | ACGIH TWA | Not applicable. |
| USA OSHA | OSHA PEL (TWA) | Not applicable. |

| Cumene (98-82-8) | | |
|------------------|------------------------|-----------|
| USA ACGIH | ACGIH TWA (ppm) | 50 ppm |
| USA OSHA | OSHA PEL (TWA) (mg/m³) | 245 mg/m³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 50 ppm |

| Naphthalene (91-20-3) | | |
|-----------------------|------------------------|----------|
| USA ACGIH | ACGIH TWA (ppm) | 10 ppm |
| USA ACGIH | ACGIH STEL (ppm) | 15 ppm |
| USA OSHA | OSHA PEL (TWA) (mg/m³) | 50 mg/m³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 10 ppm |

8.2. Exposure controls

Viscosity, kinematic Viscosity, dynamic

Explosive properties Oxidising properties

Explosive limits

Appropriate engineering controls : Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below

recommended exposure limits.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear chemically resistant protective gloves.

Eye protection : Wear approved eye (properly fitted dust- or splash-proof chemical safety goggles) / face (face

shield) protection.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : A NIOSH approved respirator is recommended in poorly ventilated areas or when permissible

exposure limits may be exceeded. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure controls : Maintain levels below Community environmental protection thresholds.

Other information : Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully

before eating or smoking. Handle according to established industrial hygiene and safety practices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid. Appearance : Clear.

Colour : No data available. Odour Petroleum odor. Odour threshold No data available. No data available. Relative evaporation rate (butylacetate=1) No data available. Melting point : No data available. : No data available. Freezing point Boiling point No data available. 26 °C (~ 78 °F) Flash point : No data available. Self ignition temperature : No data available. Decomposition temperature Flammability (solid, gas) Flammable. Vapour pressure : No data available. Relative vapour density at 20 °C : No data available. 0.811 - 0.823 Relative density Solubility No data available. Log Pow No data available. Log Kow : No data available.

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: No data available.

: No data available.

: No data available.

No data available.No data available.



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9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal storage conditions. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Heat. Incompatible materials. Open flame.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

| 2216 | | |
|----------------------------|--------------|--|
| LD50 oral rat | > 2000 mg/kg | |
| LD50 dermal rat | > 2000 mg/kg | |
| LC50 inhalation rat (mg/l) | > 20 mg/l/4h | |

| KEROSENE, petroleum (8008-20-6) | | |
|---------------------------------|----------------|--|
| LD50 oral rat | > 5000 mg/kg | |
| LD50 dermal rabbit | > 2000 mg/kg | |
| LC50 inhalation rat (mg/l) | > 5.28 mg/l/4h | |

| Isopropyl alcohol (67-63-0) | | |
|-----------------------------|--------------|--|
| LD50 oral rat | 4396 mg/kg | |
| LD50 dermal rat | 12800 mg/kg | |
| LD50 dermal rabbit | 12870 mg/kg | |
| LC50 inhalation rat (mg/l) | 72.6 mg/l/4h | |

| Solvent naphtha, petroleum, light aromatic (64742-95-6) | |
|---|---------------|
| LD50 oral rat | 8400 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |
| LC50 inhalation rat (ppm) | 3400 ppm/4h |
| LC50 inhalation rat (mg/l) | > 5.2 mg/l/4h |

| Xylenes (o-, m-, p- isomers) (1330-20-7) | | |
|--|---------------|--|
| LD50 oral rat | 4300 mg/kg | |
| LD50 dermal rabbit | > 1700 mg/kg | |
| LC50 inhalation rat (ppm) | 5000 ppm/4h | |
| LC50 inhalation rat (mg/l) | 47635 mg/l/4h | |

| Benzene, 1,2,4-trimethyl- (95-63-6) | | |
|-------------------------------------|--------------|--|
| LD50 oral rat | 3400 mg/kg | |
| LD50 dermal rabbit | > 3160 mg/kg | |
| LC50 inhalation rat (mg/l) | 18 g/m³/4h | |

1,3,5-Trimethylbenzene (108-67-8)

LC50 inhalation rat (mg/l) 24 g/m³/4 h

| n-Propylbenzene (103-65-1) | | |
|----------------------------|--------------|--|
| LD50 oral rat | 6040 mg/kg | |
| LC50 inhalation rat (ppm) | 65000 ppm/2h | |

| Cumene (98-82-8) | |
|-----------------------------|-----------------|
| LD50 oral rat | 1400 mg/kg |
| LD50 dermal rabbit | > 3160 mg/kg |
| LC50 inhalation rat (mg/m³) | 39000 mg/m³/4 h |

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| Naphthalene (91-20-3) | | | | |
|--|--|--|--|--|
| LD50 oral rat | 490 mg/kg | | | |
| LD50 dermal rabbit | > 20 g/kg | | | |
| Skin corrosion/irritation | : Causes skin irritation. | | | |
| Serious eye damage/irritation | : Causes serious eye damage. | | | |
| Respiratory or skin sensitisation | : Based on available data, the classification criteria are not met. | | | |
| Germ cell mutagenicity | : Based on available data, the classification criteria are not met. | | | |
| Carcinogenicity | : Suspected of causing cancer. | | | |
| Isopropyl alcohol (67-63-0) | | | | |
| IARC group | 3 | | | |
| Xylenes (o-, m-, p- isomers) (1330-20-7) | | | | |
| IARC group | 3 | | | |
| Cumene (98-82-8) | | | | |
| IARC group | 2B | | | |
| National Toxicity Program (NTP) Status | 1 | | | |
| Naphthalene (91-20-3) | | | | |
| IARC group | 2B | | | |
| National Toxicity Program (NTP) Status | 1, 3 | | | |
| Reproductive toxicity | : Based on available data, the classification criteria are not met. | | | |
| Specific target organ toxicity (single exposure) | : May cause drowsiness or dizziness. | | | |
| Specific target organ toxicity (repeated exposure) | : Based on available data, the classification criteria are not met. | | | |
| Aspiration hazard | : May be fatal if swallowed and enters airways. | | | |
| Symptoms/injuries after inhalation | : May cause drowsiness, dizziness and central nervous system depression. May cause respiratory tract irritation. | | | |
| Symptoms/injuries after skin contact | : Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. | | | |
| Symptoms/injuries after eye contact | : Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns. | | | |
| Symptoms/injuries after ingestion | : May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting. | | | |

SECTION 12: Ecological information

| 1 | 2.1 | | To | χi | cit | y |
|---|-----|--|----|----|-----|---|
| | | | | | | |

Ecology - general : May cause long-term adverse effects in the aquatic environment.

12.2. Persistence and degradability

| 2216 | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

12.3. Bioaccumulative potential

| 2216 | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.

Additional information : Handle empty containers with care because residual vapours are flammable.

SECTION 14: Transport information

In accordance with DOT

14.1. UN number

UN-No. : UN1993

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14.2. UN proper shipping name

Proper Shipping Name : Flammable liquids, n.o.s. (Petroleum, Isopropanol)

Department of Transportation Hazard Classes :

Hazard labels



Packing group (DOT) : III

14.3. Additional information

Other information : No supplementary information available.

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

SECTION 15: Regulatory information

15.1. US Federal regulations

KEROSENE, petroleum (8008-20-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Isopropyl alcohol (67-63-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on SARA Section 313 (Specific toxic chemical listings)

EPA TSCA Regulatory Flag T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.

SARA Section 313 - Emission Reporting 1.0 %

Solvent naphtha, petroleum, light aromatic (64742-95-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Xylenes (o-, m-, p- isomers) (1330-20-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 313 - Emission Reporting 1.0 %

Benzene, 1,2,4-trimethyl- (95-63-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 313 - Emission Reporting 1.0 %

1,3,5-Trimethylbenzene (108-67-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.

n-Propylbenzene (103-65-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Cumene (98-82-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on SARA Section 313 (Specific toxic chemical listings)

EPA TSCA Regulatory Flag T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.

SARA Section 313 - Emission Reporting 1.0 %

Naphthalene (91-20-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on SARA Section 313 (Specific toxic chemical listings)

EPA TSCA Regulatory Flag
T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.

SARA Section 313 - Emission Reporting
0.1 %

15.2. US State regulations

| 2216 | |
|----------------------------|---|
| State or local regulations | This product contains chemicals known to the State of California to cause cancer. |

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SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

| IARC | International Agency for Research on Cancer. |
|------|--|
| | 1 - Carcinogenic to humans; 2A - Probably carcinogenic to humans; 2B - Possibly carcinogenic to humans; 3 - Not classifiable; 4 - Probably not carcinogenic to humans. |
| NTP | National Toxicology Program. |
| | 1 - Evidence of Carcinogenicity; 2 - Known Human Carcinogens; 3 - Reasonably anticipated to be Human Carcinogen; 4 - Substances delisted from report on Carcinogens; 5 - Twelfth Report - Items under consideration. |

SECTION 16: Other information

NFPA reactivity

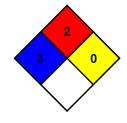
Indication of changes : None.

Date of issue : 04/30/2014

Other information : None.

NFPA health hazard : 3

NFPA fire hazard : 2



This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : PENRAY INTAKE VALVE DEPOSIT CLEANER

CAS No : 2312

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Fuel System cleaner.

1.3. Details of the supplier of the safety data sheet

The Penray Companies, Inc. 440 Denniston Ct. Wheeling, IL 60090 T (800) 373-6729 rotto@penray.com

1.4. Emergency telephone number

Emergency number : (800) 373-6729

CHEMTREC (800) 424-9300

CHEMTREC International +1 (703) 527-3887 24 hr

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Flammable Liquid 2
Acute toxicity 4 (Dermal, Inhalation)
Skin irritation 2
Carcinogenicity 2
Reproductive toxicity 2 (developmental)
Specific target organ toxicity - Repeated exposure 2
Aspiration hazard 1

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US)



(!)



CHEUS

GHS07

GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US)

: Highly flammable liquid and vapor. Harmful in contact with skin or if inhaled. Causes skin irritation. Suspected of damaging the unborn child. May cause damage to organs through

prolonged or repeated exposure. May be fatal if swallowed and enters airways.

Precautionary statements (GHS-US) : Keep away from heat/sparks/open flames/hot surfaces.— No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof

electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Use only outdoors or in a well- ventilated area. Wash hands thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe gas/mist/vapors/spray. If exposed or concerned: Get medical advice/attention. If on skin (or hair): Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents and container in accordance with all local, regional, national and international

regulations.

2.3. Other hazards

No additional information available

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SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

| Name | Product identifier | % | GHS-US classification |
|--|---------------------|-----------|---|
| Xylenes (o-, m-, p- isomers) | (CAS No) 1330-20-7 | 60 - 100 | Flam. Liq. 3 Acute Tox. 4 (Dermal, Inhalation) Skin Irrit. 2 |
| Ethylbenzene | (CAS No) 100-41-4 | 7 - 30 | Flam. Liq. 2 Acute Tox. 4 (Inhalation) Skin Irrit. 2 Carc. 2 Asp. Tox. 1 |
| Toluene | (CAS No) 108-88-3 | 7 - 13 | Flam. Liq. 2 Skin Irrit. 2 Repr. 2 STOT SE 3 STOT RE 2 Asp. Tox. 1 |
| Solvent naphtha, petroleum, light aromatic | (CAS No) 64742-95-6 | 0.5 - 1.5 | Flam. Liq. 3 Skin Irrit. 2 Eye Irrit. 2A Asp. Tox. 1 |
| Cumene | (CAS No) 98-82-8 | < 0.1 | Flam. Liq. 3 Carc. 2 STOT SE 3 Asp. Tox. 1 |
| Benzene | (CAS No) 71-43-2 | < 0.1 | Flam. Liq. 2 Acute Tox. 4 (Oral) Skin Irrit. 2 Eye Irrit. 2A Muta. 1B Carc. 1A STOT RE 1 Asp. Tox. 1 |
| Naphthalene | (CAS No) 91-20-3 | < 0.1 | Acute Tox. 4 (Oral) Carc. 2 |
| Furan | (CAS No) 110-00-9 | < 0.1 | Flam. Liq. 1 Acute Tox. 3 (Inhalation) Acute Tox. 4 (Oral) Skin Irrit. 2 Muta. 2 Carc. 1B STOT RE 2 |
| Propylene oxide | (CAS No) 75-56-9 | < 0.1 | Flam. Liq. 1 Acute Tox. 3 (Inhalation) Acute Tox. 4 (Oral, Dermal) Eye Irrit. 2A Muta. 1B Carc. 2 STOT SE 3 |
| Acetaldehyde | (CAS No) 75-07-0 | < 0.1 | Flam. Liq. 1 Eye Irrit. 2A Carc. 2 STOT SE 3 |

^{*} The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation

: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact

: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.

First-aid measures after eye contact

: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. If irritation persists, get medical attention.

First-aid measures after ingestion

: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.

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Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : Harmful if inhaled. May cause drowsiness, dizziness and central nervous system depression. May cause respiratory tract irritation.

Symptoms/injuries after skin contact : Harmful in contact with skin. Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Symptoms/injuries after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear

production, with possible redness and swelling.

Symptoms/injuries after ingestion : May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.

4.3. Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Powder, water spray, foam, carbon dioxide.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon, aldehydes,

hydrocarbons.

5.3. Advice for firefighters

Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory

protection (SCBA). Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back. Use water spray to keep fire-exposed containers cool.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition.

6.2. Methods and material for containment and cleaning up

For containment : Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable

container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal

Protective Equipment (PPE).

Methods for cleaning up : Scoop up material and place in a disposal container. Provide ventilation.

6.3. Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep away from sources of ignition - No smoking. Avoid contact with skin and eyes. Do not

breathe gas/mist/vapors/spray. Do not swallow. Handle and open container with care. Use only non-sparking tools. When using do not eat, drink or smoke. Use only outdoors or in a well-

ventilated area.

Hygiene measures : Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of the reach of children. Keep container tightly closed and in a well-ventilated place.

Store locked up. Keep cool. Keep away from heat, sparks, and flame.

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Xylenes (o-, m-, p- isomers) (1330-20-7) | | | |
|---|--|---------|--|
| USA ACGIH ACGIH TWA (ppm) 100 ppm | | | |
| USA ACGIH ACGIH STEL (ppm) 150 ppm | | 150 ppm | |
| USA OSHA OSHA PEL (TWA) (mg/m³) 435 mg/m³ | | | |

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Safety Data Sheet according to the Hazard Commun

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

| Xylenes (o-, m-, p- isomers) (1330-20-7) | | | | |
|--|---|----------------------|--|--|
| USA OSHA | OSHA PEL (TWA) (ppm) | 100 ppm | | |
| Ethylbenzene (100-41-4) | | | | |
| USA ACGIH | ACGIH TWA (ppm) | 20 ppm | | |
| USA OSHA | OSHA PEL (TWA) (mg/m³) | 435 mg/m³ | | |
| USA OSHA | OSHA PEL (TWA) (ppm) | 100 ppm | | |
| Toluene (108-88-3) | 1 | ' | | |
| USA ACGIH | ACGIH TWA (ppm) | 20 ppm | | |
| USA OSHA | OSHA PEL (TWA) (ppm) | 200 ppm | | |
| USA OSHA | OSHA PEL (STEL) (ppm) | 150 ppm | | |
| USA OSHA | OSHA PEL (Ceiling) (ppm) | 300 ppm | | |
| O-b | | | | |
| USA ACGIH | roleum, light aromatic (64742-95-6) ACGIH TWA | Not applicable. | | |
| USA OSHA | | | | |
| USA OSHA | OSHA PEL (TWA) | Not applicable. | | |
| Cumene (98-82-8) | | | | |
| USA ACGIH | ACGIH TWA (ppm) | 50 ppm | | |
| USA OSHA | OSHA PEL (TWA) (mg/m³) | 245 mg/m³ | | |
| USA OSHA | OSHA PEL (TWA) (ppm) | 50 ppm | | |
| Benzene (71-43-2) | | | | |
| USA ACGIH | ACGIH TWA (ppm) | 0.5 ppm | | |
| USA ACGIH | ACGIH STEL (ppm) | 2.5 ppm | | |
| USA OSHA | OSHA PEL (TWA) (ppm) | 1 ppm | | |
| USA OSHA | OSHA PEL (STEL) (ppm) | 5 ppm | | |
| USA OSHA | OSHA PEL (Ceiling) (ppm) | 25 ppm | | |
| Naphthalene (91-20-3 | 1 | ' | | |
| USA ACGIH | ACGIH TWA (ppm) | 10 ppm | | |
| USA ACGIH | ACGIH STEL (ppm) | 15 ppm | | |
| USA OSHA | OSHA PEL (TWA) (mg/m³) | 50 mg/m ³ | | |
| USA OSHA | OSHA PEL (TWA) (ppm) | 10 ppm | | |
| F (440.00.0) | | | | |
| Furan (110-00-9) USA ACGIH | ACGIH TWA | Not applicable. | | |
| USA OSHA | OSHA PEL (TWA) | Not applicable. | | |
| | <u> </u> | | | |
| Propylene oxide (75- USA ACGIH | ACGIH TWA (ppm) | 2 ppm | | |
| USA OSHA | OSHA PEL (TWA) (mg/m³) | 240 mg/m³ | | |
| USA OSHA | OSHA PEL (TWA) (IIIg/III ^e) OSHA PEL (TWA) (ppm) | 100 ppm | | |
| | | 100 pp | | |
| Acetaldehyde (75-07- | | | | |
| USA ACGIH | ACGIH Ceiling (ppm) | 25 ppm | | |
| USA OSHA | OSHA PEL (TWA) (mg/m³) | 360 mg/m³ | | |
| USA OSHA | OSHA PEL (TWA) (ppm) | 200 ppm | | |





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8.2. Exposure controls

Appropriate engineering controls : Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below

recommended exposure limits.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear chemically resistant protective gloves.

Eye protection : Safety glasses or goggles are recommended when using product.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : A NIOSH approved respirator is recommended in poorly ventilated areas or when permissible

exposure limits may be exceeded. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure controls : Maintain levels below Community environmental protection thresholds.

Other information : Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully

before eating or smoking. Handle according to established industrial hygiene and safety practices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid.
Appearance : Clear.
Color : Amber.

Odor Petroleum odor. Odor threshold No data available. Hq No data available. Relative evaporation rate (butylacetate=1) : No data available. Melting point No data available. Freezing point : No data available. : No data available. Boiling point ~ 22 °C (~ 71 °F) Flash point Self ignition temperature : No data available. Decomposition temperature No data available. Flammability (solid, gas) : Flammable. Vapor pressure No data available. Relative vapor density at 20 °C No data available Relative density 0.864 - 0.869 No data available. Solubility : No data available.

Log Pow : No data available.
Log Kow : No data available.
Viscosity, kinematic : No data available.
Viscosity, dynamic : No data available.
Explosive properties : No data available.
Oxidising properties : No data available.
Explosive limits : No data available.

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal storage conditions. May form flammable/explosive vapor-air mixture.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Heat. Incompatible materials. Open flame.





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according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

10.5. Incompatible materials

Acids. Bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon, aldehydes, hydrocarbons.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful in contact with skin or if inhaled.

| 2312 | |
|---------------------|---|
| LD50 oral rat | > 2000 mg/kg |
| LD50 dermal rabbit | >1000 but ≤2000 mg/kg |
| LC50 inhalation rat | >10.0 but ≤20.0 mg/l/4h (Calculated using ATE values) |

| Xylenes (o-, m-, p- isomers) (1330-20-7) | |
|--|--------------|
| LD50 oral rat | 4300 mg/kg |
| LD50 dermal rabbit | > 1700 mg/kg |
| LC50 inhalation rat | 5000 ppm/4 h |

| Ethylbenzene (100-41-4) | |
|-------------------------|--------------|
| LD50 oral rat | 3500 mg/kg |
| LD50 dermal rabbit | 15354 mg/kg |
| LC50 inhalation rat | 17.2 mg/l/4h |

| Toluene (108-88-3) | |
|---------------------|--------------|
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rat | 12124 mg/kg |
| LD50 dermal rabbit | 8390 mg/kg |
| LC50 inhalation rat | 28.1 mg/l/4h |

| Solvent naphtha, petroleum, light aromatic (64742-95-6) | |
|---|---------------|
| LD50 oral rat | 8400 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |
| LC50 inhalation rat | 3400 ppm/4h |
| LC50 inhalation rat | > 5.2 mg/l/4h |

| Cumene (98-82-8) | | |
|---------------------|------------------------------|----------|
| LD50 oral rat | 1400 mg/kg | <u> </u> |
| LD50 dermal rabbit | > 3160 mg/kg | |
| LC50 inhalation rat | 39000 mg/m ³ /4 h | |

| Benzene (71-43-2) | | |
|---------------------|----------------------|--|
| LD50 oral rat | 930 mg/kg | |
| LD50 dermal rabbit | > 9.4 mL/kg | |
| LC50 inhalation rat | 13050 - 14380 ppm/4h | |

| Naphthalene (91-20-3) | | |
|-----------------------|----------------|--|
| LD50 oral rat | 490 mg/kg | |
| LD50 dermal rabbit | > 20 g/kg | |
| LC50 inhalation rat | >340 mg/m³/4 h | |

| Furan (110-00-9) | |
|---------------------|-------------|
| LC50 inhalation rat | 3398 ppm/1h |

| Propylene oxide (75-56-9) | | |
|---------------------------|-------------|--|
| LD50 oral rat | 520 mg/kg | |
| LD50 dermal rabbit | 1244 mg/kg | |
| LC50 inhalation rat | 4000 ppm/4h | |

| Acetaldehyde (75-07-0) | |
|------------------------|--------------|
| LD50 oral rat | 1930 mg/kg |
| LC50 inhalation rat | 13300 ppm/4h |

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according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation : Based on available data, the classification criteria are not met.

Germ cell mutagenicity : Based on available data, the classification criteria are not met.

Carcinogenicity : Suspected of causing cancer.

| Carcinogenicity | : Suspected of causing cancer. |
|--|---|
| Xylenes (o-, m-, p- isomers) (1330-20-7) | |
| IARC group | 3 - Not classifiable |
| Ethylbenzene (100-41-4) | |
| IARC group | 2B - Possibly carcinogenic to humans |
| National Toxicity Program (NTP) Status | 1 - Evidence of Carcinogenicity |
| Toluene (108-88-3) | |
| IARC group | 3 - Not classifiable |
| Cumene (98-82-8) | |
| IARC group | 2B - Possibly carcinogenic to humans |
| National Toxicity Program (NTP) Status | 1 - Evidence of Carcinogenicity |
| Benzene (71-43-2) | |
| IARC group | 1 - Carcinogenic to humans |
| National Toxicity Program (NTP) Status | 1 - Evidence of Carcinogenicity, 2 - Known Human Carcinogens |
| | In OSHA Specifically Regulated Carcinogen list |
| Naphthalene (91-20-3) | |
| IARC group | 2B - Possibly carcinogenic to humans |
| National Toxicity Program (NTP) Status | 1 - Evidence of Carcinogenicity, 3 - Reasonably anticipated to be Human Carcinogen |
| Furan (110-00-9) | |
| IARC group | 2B - Possibly carcinogenic to humans |
| National Toxicity Program (NTP) Status | 1 - Evidence of Carcinogenicity, 3 - Reasonably anticipated to be Human Carcinogen |
| Propylene oxide (75-56-9) | |
| IARC group | 2B - Possibly carcinogenic to humans |
| National Toxicity Program (NTP) Status | 1 - Evidence of Carcinogenicity, 3 - Reasonably anticipated to be Human Carcinogen |
| Acetaldehyde (75-07-0) | |
| IARC group | 1 - Carcinogenic to humans, 2B - Possibly carcinogenic to humans |
| National Toxicity Program (NTP) Status | 3 - Reasonably anticipated to be Human Carcinogen |
| Reproductive toxicity | : Suspected of damaging the unborn child. |
| Specific target organ toxicity (single exposure) | : Based on available data, the classification criteria are not met. |
| Specific target organ toxicity (repeated exposure) | : May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard | : May be fatal if swallowed and enters airways. |
| Symptoms/injuries after inhalation | : Harmful if inhaled. May cause drowsiness, dizziness and central nervous system depression May cause respiratory tract irritation. |
| Symptoms/injuries after skin contact | : Harmful in contact with skin. Causes skin irritation. Symptoms may include redness, edema, |

SECTION 12: Ecological information

| | | _ | | |
|---|------|----|----|------|
| 1 | 12.1 | TC | XI | citv |

Ecology - general : May cause long-term adverse effects in the aquatic environment.

12.2. Persistence and degradability

Symptoms/injuries after eye contact

Symptoms/injuries after ingestion

| 12121 1 orolotorioo uria dogradabiity | |
|---------------------------------------|------------------|
| 2312 | |
| Persistence and degradability | Not established. |

drying, defatting and cracking of the skin.

production, with possible redness and swelling.

: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear

: May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and

cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.

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according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

| 12.3. E | Bioaccumu | lative r | ootential |
|---------|-----------|----------|-----------|
|---------|-----------|----------|-----------|

2312

Bioaccumulative potential Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on ozone layer : No additional information available

Effect on the global warming : No known ecological damage caused by this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : This material must be disposed of in accordance with all local, state, provincial, and federal

regulations. The generation of waste should be avoided or minimized wherever possible.

Additional information : Handle empty containers with care because residual vapors are flammable.

SECTION 14: Transport information

In accordance with DOT

14.1. UN number

UN-No. : 3295

14.2. UN proper shipping name

Proper Shipping Name : Hydrocarbons, liquid, n.o.s. (Xylene, Ethylbenzene, Toluene)

3

Department of Transportation Hazard Classes

Hazard labels



Packing group : II

14.3. Additional information

Other information : No supplementary information available.

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

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

Xylenes (o-, m-, p- isomers) (1330-20-7)

Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 313 - Emission Reporting 1.0 %

Ethylbenzene (100-41-4)

Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 313 - Emission Reporting 0.1 %

Toluene (108-88-3)

Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 313 - Emission Reporting 1.0 %

Cumene (98-82-8)

Listed on SARA Section 313 (Specific toxic chemical listings)

EPA TSCA Regulatory Flag T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.

SARA Section 313 - Emission Reporting 1.0 %

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Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

| Benzene (71-43-2) | | |
|---|--|--|
| Listed on SARA Section 313 (Specific toxic chemical listings) | | |
| SARA Section 313 - Emission Reporting | 0.1 % | |
| Naphthalene (91-20-3) | | |
| Listed on SARA Section 313 (Specific toxic chemical list | ings) | |
| EPA TSCA Regulatory Flag | T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. | |
| SARA Section 313 - Emission Reporting | 0.1 % | |
| Furan (110-00-9) | | |
| Listed on SARA Section 302 (Specific toxic chemical listings) Listed on SARA Section 313 (Specific toxic chemical listings) | | |
| SARA Section 302 Threshold Planning Quantity (TPQ) | 500 | |
| SARA Section 313 - Emission Reporting | 0.1 % | |
| Propylene oxide (75-56-9) | | |
| Listed on SARA Section 302 (Specific toxic chemical list Listed on SARA Section 313 (Specific toxic chemical list | | |
| EPA TSCA Regulatory Flag | T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. | |
| SARA Section 302 Threshold Planning Quantity (TPQ) | 10000 | |
| SARA Section 313 - Emission Reporting | 0.1 % | |
| Acetaldehyde (75-07-0) | | |
| Listed on SARA Section 313 (Specific toxic chemical listings) | | |

15.2. US State regulations

07/24/2014

EPA TSCA Regulatory Flag

| 2312 | |
|----------------------------|---|
| State or local regulations | This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. |
| | defects of other reproductive narm. |

0.1 %

SECTION 16: Other information

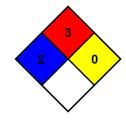
SARA Section 313 - Emission Reporting

Indication of changes : None.

Date of issue : 07/24/2014

Other information : None.

NFPA health hazard : 2
NFPA fire hazard : 3
NFPA reactivity : 0



This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product



T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.



Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Date of issue: 06/11/2014 Revision date: 06/11/2014 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : PENRAY TOTAL INTAKE SYSTEM CLEANER

Product code : 2512

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Intake system cleaner.

1.3. Details of the supplier of the safety data sheet

The Penray Companies, Inc. 440 Denniston Ct. Wheeling, IL 60090 T (800) 373-6729 rotto@penray.com

1.4. Emergency telephone number

Emergency number : (800) 373-6729

CHEMTREC (800) 424-9300

CHEMTREC International +1 (703) 527-3887 24 hr

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Flammable Aerosol 1
Gases Under Pressure - Compressed Gas
Acute toxicity 4 (Oral)
Acute toxicity 3 (Dermal)
Skin corrosion 1B
Serious eye damage 1
Reproductive toxicity 1B
Specific target organ toxicity - Single exposure 3
Specific target organ toxicity - Repeated exposure 2
Aspiration hazard 1

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US)







GHS05



GHS06





Signal word (GHS-US)

Hazard statements (GHS-US)

: Danger

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Harmful if swallowed. Toxic in contact with skin. Causes severe skin burns and eye damage. May damage fertility or the unborn child. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways.

Precautionary statements (GHS-US)

Exeep away from heat/sparks/open flames/hot surfaces. -No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. Do not breathe gas/mist/vapors/spray. If exposed or concerned: Get medical advice/attention. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a poison center/doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center/doctor. Do not expose to temperatures exceeding 50 °C/122 °F. Protect from sunlight. Store in a well-ventilated place. Store locked up. Dispose of contents and container in accordance with all local, regional, national and international regulations.

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2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

| Name | Product identifier | % | GHS-US classification |
|------------------------|--------------------|---------|--|
| Butane | (CAS No) 106-97-8 | 15 - 40 | Flam. Gas 1 Liquefied gas |
| Propane | (CAS No) 74-98-6 | 15 - 40 | Flam. Gas 1 Liquefied gas |
| Toluene | (CAS No) 108-88-3 | 7 - 13 | Flam. Liq. 2 Skin Irrit. 2 Repr. 2 STOT SE 3 STOT RE 2 Asp. Tox. 1 |
| Acetonitrile | (CAS No) 75-05-8 | 3 - 7 | Flam. Liq. 2 Acute Tox. 4 (Oral, Inhalation) Acute Tox. 3 (Dermal) Eye Irrit. 2A |
| 1-Methyl-2-pyrrolidone | (CAS No) 872-50-4 | 3 - 7 | Flam. Liq. 4 Skin Irrit. 2 Eye Irrit. 2A Repr. 1B STOT SE 3 |
| Isopropyl alcohol | (CAS No) 67-63-0 | 3 - 7 | Flam. Liq. 2 Eye Irrit. 2A STOT SE 3 |
| Morpholine | (CAS No) 110-91-8 | 3 - 7 | Flam. Liq. 3 Acute Tox. 4 (Oral, Inhalation) Acute Tox. 3 (Dermal) Skin Corr. 1B |
| 2-Methoxyethanol | (CAS No) 109-86-4 | < 0.1 | Flam. Liq. 3 Acute Tox. 4 (Oral, Dermal, Inhalation) Repr. 1B |
| Benzene | (CAS No) 71-43-2 | < 0.1 | Flam. Liq. 2 Acute Tox. 4 (Oral) Skin Irrit. 2 Eye Irrit. 2A Muta. 1B Carc. 1A STOT RE 1 Asp. Tox. 1 |
| Ethylbenzene | (CAS No) 100-41-4 | < 0.1 | Flam. Liq. 2 Acute Tox. 4 (Inhalation) Skin Irrit. 2 Carc. 2 Asp. Tox. 1 |
| Cumene | (CAS No) 98-82-8 | < 0.1 | Flam. Liq. 3 Acute Tox. 4 (Oral) Carc. 2 |

^{*} The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

SECTION 4: First aid measures

| 4.1. Descr | ption of first | aid measures |
|------------|----------------|--------------|
|------------|----------------|--------------|

First-aid measures after inhalation

: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical advice/attention.

First-aid measures after skin contact

: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get immediate medical advice/attention.

First-aid measures after eye contact

: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.

First-aid measures after ingestion

: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Rinse mouth. Get immediate medical

advice/attention.

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Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation

: Irritating to respiratory system. May cause drowsiness, dizziness and central nervous system depression. Intentional misuse of product by inhalation can result in asphyxiation or death.

Symptoms/injuries after skin contact

: Toxic in contact with skin. Causes severe skin burns. Redness. Pain. Blisters.

Symptoms/injuries after eye contact

: Causes serious eye damage. May cause serious chemical burns. Redness, pain, tearing.

Symptoms/injuries after ingestion

 Harmful if swallowed. May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.

4.3. Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Powder, water spray, foam, carbon dioxide.

Unsuitable extinguishing media : None known

5.2. Special hazards arising from the substance or mixture

Fire hazard : Extremely flammab

: Extremely flammable aerosol. Products of combustion may include, and are not limited to: oxides

of carbon.

Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns

and injuries.

5.3. Advice for firefighters

Protection during firefighting

: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back. Use water spray to keep fire-exposed containers cool.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition.

6.2. Methods and material for containment and cleaning up

For containment

: Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up

: Scoop up material and place in a disposal container. Provide ventilation.

6.3. Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Keep away from sources of ignition. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not get in eyes, on skin, or on clothing. Do not swallow. Do not breathe gas, fumes, vapour or spray. When using do not eat, drink or smoke. Use only outdoors or in a well-ventilated area.

Hygiene measures : Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Keep locked up and out of reach of children. Do not expose ot temperatures exceeding 50°C/ 122°F. Store away from direct sunlight or other heat sources. Store in a well-ventilated place.

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Butane (106-97-8) | | |
|-------------------|------------------|----------|
| USA ACGIH | ACGIH STEL (ppm) | 1000 ppm |

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Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

| ccording to the Hazard Comi | munication Standard (CFR29 1910.1200) HazCom 2012. | |
|-----------------------------------|--|----------------------|
| Propane (74-98-6) | | |
| USA ACGIH | ACGIH TWA (ppm) | 1000 ppm |
| USA OSHA | OSHA PEL (TWA) (mg/m³) | 1800 mg/m³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 1000 ppm |
| Toluene (108-88-3) | | |
| USA ACGIH | ACGIH TWA (ppm) | 20 ppm |
| USA OSHA | OSHA PEL (TWA) (ppm) | 200 ppm |
| USA OSHA | OSHA PEL (Ceiling) (ppm) | 300 ppm |
| Acetonitrile (75-05-8) | | |
| USA ACGIH | ACGIH TWA (ppm) | 20 ppm |
| USA OSHA | OSHA PEL (TWA) (mg/m³) | 70 mg/m³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 40 ppm |
| 1-Methyl-2-pyrrolidon | ne (872-50-4) | · |
| USA ACGIH | ACGIH TWA | Not applicable. |
| USA OSHA | OSHA PEL (TWA) | Not applicable. |
| Isopropyl alcohol (67- | 62.0) | |
| USA ACGIH | ACGIH TWA (ppm) | 200 ppm |
| USA ACGIH | ACGIH STEL (ppm) | 400 ppm |
| USA OSHA | OSHA PEL (TWA) (mg/m³) | 980 mg/m³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 400 ppm |
| OUA CONA | COLIAT EE (TWA) (ppin) | тоо ррш |
| Morpholine (110-91-8) | | |
| USA ACGIH | ACGIH TWA (ppm) | 20 ppm |
| USA OSHA | OSHA PEL (TWA) (mg/m³) | 70 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 20 ppm |
| 2-Methoxyethanol (10 | 9-86-4) | |
| USA ACGIH | ACGIH TWA (ppm) | 0.1 ppm |
| USA OSHA | OSHA PEL (TWA) (mg/m³) | 80 mg/m³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 25 ppm |
| Benzene (71-43-2) | | ' |
| USA ACGIH | ACGIH TWA (ppm) | 0.5 ppm |
| USA ACGIH | ACGIH STEL (ppm) | 2.5 ppm |
| USA OSHA | OSHA PEL (TWA) (ppm) | 1 ppm |
| USA OSHA | OSHA PEL (STEL) (ppm) | 5 ppm |
| USA OSHA | OSHA PEL (Ceiling) (ppm) | 25 ppm |
| | | |
| Ethylbenzene (100-41 USA ACGIH | ACGIH TWA (ppm) | 20 ppm |
| USA OSHA | OSHA PEL (TWA) (mg/m³) | 20 ppm 435 mg/m³ |
| USA OSHA | OSHA PEL (TWA) (mg/m³) OSHA PEL (TWA) (ppm) | 435 mg/m³ 100 ppm |
| USA USTIA | OSHA FEL (TWA) (PPIII) | 100 ρριτι |
| Cumene (98-82-8) | | |
| USA ACGIH | ACGIH TWA (ppm) | 50 ppm |
| USA OSHA | OSHA PEL (TWA) (mg/m³) | 245 mg/m³ |

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| Cumene (98-82-8) | (98-82-8) | |
|------------------|----------------------|--------|
| USA OSHA | OSHA PEL (TWA) (ppm) | 50 ppm |

8.2. Exposure controls

Appropriate engineering controls : Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below

recommended exposure limits.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear chemically resistant protective gloves.

Eye protection : Wear approved eye protection (properly fitted dust- or splash-proof chemical safety goggles) and

face protection (face shield).

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : A NIOSH approved respirator is recommended in poorly ventilated areas or when permissible

exposure limits may be exceeded. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure controls : Maintain levels below Community environmental protection thresholds.

Other information : Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully

before eating or smoking. Handle according to established industrial hygiene and safety practices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Gas/Pressurized Liquid.

Appearance : Clear.
Colour : Colourless.
Odour : Solvent.

Odour threshold : No data available. No data available. Relative evaporation rate (butylacetate=1) : No data available. Melting point No data available. Freezing point : No data available. : No data available. Boiling point Flash point No data available. Self ignition temperature No data available. Decomposition temperature No data available. Flammability (solid, gas) : Flammable. : No data available. Vapour pressure Relative vapour density at 20 °C No data available.

Relative vapour density at 20 °C : No data available.

Relative density : 0.94 - 1.04

Solubility : No data available.

Log Pow : No data available.

Log Kow : No data available.

Viscosity, kinematic : No data available.

Viscosity, dynamic : No data available.

Explosive properties : No data available.

Oxidising properties : No data available.

Explosive limits : No data available.

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal storage conditions. Extremely flammable aerosol. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn.

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10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Heat. Incompatible materials. Sources of ignition.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed. Toxic in contact with skin.

| 2512 | | |
|----------------------------|-------------|--|
| LD50 oral rat | 1556 mg/kg | |
| LD50 dermal rabbit | 850 mg/kg | |
| LC50 inhalation rat (mg/l) | > 5 mg/l/4h | |

Butane (106-97-8)

LC50 inhalation rat (mg/l) 658 mg/l/4h

Propane (74-98-6)

LC50 inhalation rat (ppm)

LC50 inhalation rat (mg/l) 658 mg/l/4h

7551 ppm/8h

| Toluene (108-88-3) | |
|----------------------------|--------------|
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rat | 12124 mg/kg |
| LD50 dermal rabbit | 8390 mg/kg |
| LC50 inhalation rat (mg/l) | 28.1 mg/l/4h |

| Acetonitrile (75-05-8) | |
|------------------------|-----------------|
| LD50 dermal rabbit | 395 - 988 mg/kg |

| 1-Methyl-2-pyrrolidone (872-50-4) | |
|-----------------------------------|---------------|
| LD50 oral rat | 3598 mg/kg |
| LD50 dermal rabbit | 8 g/kg |
| LC50 inhalation rat (mg/l) | > 5.1 mg/l/4h |

| Isopropyl alcohol (67-63-0) | |
|-----------------------------|--------------|
| LD50 oral rat | 4396 mg/kg |
| LD50 dermal rat | 12800 mg/kg |
| LD50 dermal rabbit | 12870 mg/kg |
| LC50 inhalation rat (ppm) | 72.6 mg/L/4h |

| Morpholine (110-91-8) | Morpholine (110-91-8) | |
|---------------------------|-----------------------|--|
| LD50 oral rat | 1050 mg/kg | |
| LD50 dermal rabbit | 310 mg/kg | |
| LC50 inhalation rat (ppm) | 8000 ppm/8h | |

| | 2-Methoxyethanol (109-86-4) | |
|--|-----------------------------|------------|
| | LD50 oral rat | 2370 mg/kg |
| | LD50 dermal rat | 2000 mg/kg |
| | LD50 dermal rabbit | 1280 ma/ka |

| Benzene (71-43-2) | |
|---------------------------|----------------------|
| LD50 oral rat | 930 mg/kg |
| LD50 dermal rabbit | > 9.4 mL/kg |
| LC50 inhalation rat (ppm) | 13050 - 14380 ppm/4h |

| Ethylbenzene (100-41-4) | |
|-------------------------|------------|
| LD50 oral rat | 3500 mg/kg |

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| ccording to the Hazard Communication Standard (CFR29 | 1910.1200) HazCom 2012. | |
|---|--|--|
| Ethylbenzene (100-41-4) | | |
| LD50 dermal rabbit | 15354 mg/kg | |
| LC50 inhalation rat (mg/l) | 17.2 mg/l/4h | |
| Cumene (98-82-8) | | |
| LD50 oral rat | 1400 mg/kg | |
| LD50 dermal rabbit | > 3160 mg/kg | |
| LC50 inhalation rat (mg/l) | 39000 mg/m³/4 h | |
| Skin corrosion/irritation | : Causes severe skin burns. | |
| Serious eye damage/irritation | : Causes serious eye damage. | |
| Respiratory or skin sensitisation | : Based on available data, the classification criteria are not met. | |
| Germ cell mutagenicity | : Based on available data, the classification criteria are not met. | |
| Carcinogenicity | : Based on available data, the classification criteria are not met. | |
| | ,,, | |
| Toluene (108-88-3) | O. Mattalana Wahita | |
| IARC group | 3 - Not classifiable | |
| Isopropyl alcohol (67-63-0) | | |
| IARC group | 3 - Not classifiable | |
| Morpholine (110-91-8) | | |
| IARC group | 3 - Not classifiable | |
| Benzene (71-43-2) | | |
| IARC group | 1 - Carcinogenic to humans | |
| National Toxicity Program (NTP) Status | 1 - Evidence of Carcinogenicity, 2 - Known Human Carcinogens | |
| , , , | In OSHA Specifically Regulated Carcinogen list | |
| Ethylbenzene (100-41-4) | | |
| IARC group | 2B - Possibly carcinogenic to humans | |
| National Toxicity Program (NTP) Status | 1 - Evidence of Carcinogenicity | |
| | , | |
| Cumene (98-82-8) IARC group | 2B - Possibly carcinogenic to humans | |
| National Toxicity Program (NTP) Status | 1 - Evidence of Carcinogenicity | |
| | | |
| Reproductive toxicity Specific target organ toxicity (single exposure) | : May damage fertility or the unborn child.: May cause drowsiness or dizziness. | |
| Specific target organ toxicity (single exposure) | : May cause damage to organs through prolonged or repeated exposure. | |
| Aspiration hazard | : May be fatal if swallowed and enters airways. | |
| Aspiration nazaru | . May be latal if Swallowed and effects allways. | |
| Symptoms/injuries after inhalation | : Irritating to respiratory system. May cause drowsiness, dizziness and central nervous system depression. Intentional misuse of product by inhalation can result in asphyxiation or death. | |
| Symptoms/injuries after skin contact | : Toxic in contact with skin. Causes severe skin burns. Redness. Pain. Blisters. | |
| Symptoms/injuries after eye contact | : Causes serious eye damage. May cause serious chemical burns. Redness, pain, tearing. | |
| Symptoms/injuries after ingestion | : Harmful if swallowed. May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting. | |
| SECTION 12: Ecological information | | |
| 12.1. Toxicity | | |
| Ecology - general | : May cause long-term adverse effects in the aquatic environment. | |
| 12.2. Persistence and degradability | | |
| 2512 | | |
| Persistence and degradability | Not established. | |
| 12.3. Bioaccumulative potential | | |
| | | |
| 2512 Bioaccumulative potential | Not established. | |
| οιοαοουπτιατίνε ρυτεπτίαι | างน เอเลมกอกซิน. | |

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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on ozone layer : No additional information available

Effect on the global warming : No known ecological damage caused by this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : This material must be disposed of in accordance with all local, state, provincial, and federal

regulations. The generation of waste should be avoided or minimized wherever possible.

Additional information : Flammable vapours may accumulate in the container. Do not incinerate closed containers.

SECTION 14: Transport information

In accordance with DOT

14.1. UN number

UN-No. UN1950

14.2. UN proper shipping name

Proper Shipping Name : Aerosols flammable, containing substances in Class 6.1, packing group III and in Class 8,

packing group II

Department of Transportation Hazard Classes

Hazard labels

: 2.1 (6.1, 8)



14.3. Additional information

Other information : No supplementary information available.

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

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Toluene (108-88-3) Listed on SARA Section 313 (Specific toxic chemical listings) SARA Section 313 - Emission Reporting 1.0 %

| Acetonitrile (75-05-8) | |
|---|--|
| Listed on SARA Section 313 (Specific toxic chemical listings) | |
| EPA TSCA Regulatory Flag | T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. |
| SARA Section 313 - Emission Reporting | 1.0 % |

| 1-Methyl-2-pyrrolidone (872-50-4) | |
|---|--|
| Listed on SARA Section 313 (Specific toxic chemical listings) | |
| EPA TSCA Regulatory Flag | T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. |
| SARA Section 313 - Emission Reporting | 1.0 % |

| Isopropyl alcohol (67-63-0) | |
|---|--|
| Listed on SARA Section 313 (Specific toxic chemical listings) | |
| EPA TSCA Regulatory Flag | T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. |
| SARA Section 313 - Emission Reporting | 1.0 % |
| | |

2-Methoxyethanol (109-86-4)

Listed on SARA Section 313 (Specific toxic chemical listings)

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according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

| 2-Methoxyethanol (109-86-4) | |
|---------------------------------------|--|
| EPA TSCA Regulatory Flag | S - S - indicates a substance that is identified in a proposed or final Significant New Uses Rule. |
| SARA Section 313 - Emission Reporting | 1.0 % |
| Benzene (71-43-2) | |

| Benzene (71-43-2) | |
|---|-------|
| Listed on SARA Section 313 (Specific toxic chemical listings) | |
| SARA Section 313 - Emission Reporting | 0.1 % |

| Ethylbenzene (100-41-4) | |
|---|-------|
| Listed on SARA Section 313 (Specific toxic chemical listings) | |
| SARA Section 313 - Emission Reporting | 0.1 % |

| Cumene (98-82-8) | | |
|---|--|--|
| Listed on SARA Section 313 (Specific toxic chemical listings) | | |
| EPA TSCA Regulatory Flag | T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. | |
| SARA Section 313 - Emission Reporting | 1.0 % | |

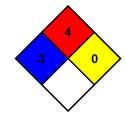
15.2. US State regulations

| 2512 | |
|----------------------------|---|
| State or local regulations | This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. |
| | defects of other reproductive name. |

SECTION 16: Other information

Indication of changes: None.Date of issue: 06/11/2014Other information: None.

NFPA health hazard : 3
NFPA fire hazard : 4
NFPA reactivity : 0



This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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