SAFETY DATA SHEET

Issuing Date 24-Apr-2014 **Revision Date** 29-Aug-2017 **Revision Number** 1

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name **N.8**

Contains m-Xylene, p-Xylene, o-Xylene
Contains p-Xylene, o-Xylene, m-Xylene, Ethylbenzene

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

Recommended Use Viscometer and/or density measurement equipment calibration and performance verification reference standard

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Supplier
Cannon Instrument Company
2139 High Tech Rd.
State College, PA 16803-1733
TEL: (814) 353-8000; (800) 676-6232

For further information, please contact

E-mail Address No information available.

1.4. Emergency telephone number

Emergency Telephone Number (800) 255-3924 Domestic CHEM-TEL Inc.
+1 (813) 248-0585 Overseas CHEM-TEL Inc. (Please Call Collect)

Europe	112

Section 2. Hazards identification

2.1. - Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Aspiration Toxicity	Category 1
Acute Dermal Toxicity	Category 4
Acute Inhalation Toxicity - Vapors	Category 4
Skin Corrosion/Irritation	Category 2

Physical Hazards

Flammable liquids	Category 3

2.2. Label Elements

Signal Word **Danger**

Hazard Statements
H304 - May be fatal if swallowed and enters airways
H312 - Harmful in contact with skin
H315 - Causes skin irritation
H332 - Harmful if inhaled
H226 - Flammable liquid and vapor

Precautionary Statements - EU (§28, 1272/2008)
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P370 + P378 - In case of fire: Use carbon dioxide, alcohol-resistant foam, or water spray for extinction
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician
P331 - Do NOT induce vomiting

2.3. Other information
Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Contact with eyes may cause irritation. May cause respiratory tract irritation. Prolonged skin contact may defat the skin and produce dermatitis.

Section 3. Composition/information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

Chemical Name	EC-No	CAS-No	Weight %	EU - GHS Substance Classification	REACH No.
m-Xylene	203-576-3	108-38-3	30-60	Acute Tox. 4 (H312) Skin Irrit. 2 (H315) Flam. Liq. 3 (H226) Acute Tox. 4 (H332)	No data available
p-Xylene	203-396-5	106-42-3	15-40	Skin Irrit. 2 (H315) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Flam Liq. 3 (H226)	No data available
o-Xylene	202-422-2	95-47-6	10-30	Acute Tox. 4 (H312) Skin Irrit. 2 (H315) Flam. Liq. 3 (H226) Muta. 1B (H340) Carc. 1B (H350) Asp. Tox. 1 (H304) Acute Tox. 4 (H332)	No data available
Ethylbenzene	202-849-4	100-41-4	10-30	Flam. Liq. 2 (H225) STOT RE 2 (H373) Muta. 1B (H340) Carc. 1B (H350) Asp. Tox. 1 (H304)	No data available

				Acute Tox. 4 (H332)	

For the full text of the H-Statements mentioned in this Section, see Section 16

Section 4. First aid measures

4.1. Description of first-aid measures

Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Obtain medical attention if irritation persists.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.

Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Drink plenty of water. Get medical attention.

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately if symptoms occur. Artificial respiration and/or oxygen may be necessary. If breathing has stopped, contact emergency medical services immediately.

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

Most Important Symptoms/Effects Drowsiness. Dizziness. Irritation. Difficulty in breathing. Coughing and/ or wheezing. Nausea. Tremors. Headaches. Neurological disorders.

4.3. Indication of immediate medical attention and special treatment needed

Notes to Physician Aspiration hazard.

Section 5. Fire-fighting measures

5.1. Extinguishing media

Suitable Extinguishing Media
Water spray. Carbon dioxide (CO_2). Foam. Dry powder.

Extinguishing media which must not be used for safety reasons
No information available.

5.2. Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases
During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide, Carbon dioxide.

5.3. Advice for firefighters

Special protective equipment for fire-fighters
As in any fire, wear self-contained breathing apparatus and full protective gear.

Section 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Remove all sources of ignition. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

6.2. Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

6.3. Methods and materials for containment and cleaning up
Dike to collect large liquid spills. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

Clean contaminated surface thoroughly.

6.4. Reference to other sections
See Section 12 for additional information.

Section 7. Handling and storage

7.1. Precautions for Safe Handling
Handling
Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

Hygiene Measures
Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition.

7.3. Specific end use(s)
Exposure Scenario
No information available.

Other Guidelines
No information available.

Section 8. Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical Name	EU	Austria	Belgium	Cyprus	Denmark
m-Xylene 108-38-3	S* TWA 50 ppm TWA 221 mg/m³ STEL 100 ppm STEL 442 mg/m³	STEL: 100 ppm STEL: 442 mg/m³ TWA: 50 ppm TWA: 221 mg/m³ Skin	TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ Skin	TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ Skin	TWA: 25 ppm TWA: 109 mg/m³ Skin
p-Xylene 106-42-3	S* TWA 50 ppm TWA 221 mg/m³ STEL 100 ppm STEL 442 mg/m³	STEL: 100 ppm STEL: 442 mg/m³ TWA: 50 ppm TWA: 221 mg/m³ Skin	TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ Skin	TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ Skin	TWA: 25 ppm TWA: 109 mg/m³ Skin
o-Xylene 95-47-6	S* TWA 50 ppm TWA 221 mg/m³ STEL 100 ppm STEL 442 mg/m³	STEL: 100 ppm STEL: 442 mg/m³ TWA: 50 ppm TWA: 221 mg/m³ Skin	TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ Skin	TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ Skin	TWA: 25 ppm TWA: 109 mg/m³ Skin
Ethylbenzene 100-41-4	S* TWA 100 ppm TWA 442 mg/m³	STEL: 200 ppm STEL: 880 mg/m³ TWA: 100 ppm	TWA: 100 ppm TWA: 442 mg/m³ STEL: 125 ppm	TWA: 100 ppm TWA: 442 mg/m³ STEL: 200 ppm	TWA: 50 ppm TWA: 217 mg/m³ Skin

	STEL 200 ppm STEL 884 mg/m³	TWA: 440 mg/m³ Skin	STEL: 551 mg/m³ Skin	STEL: 884 mg/m³ Skin	Carc*
Chemical Name	**Finland**	**France**	**Germany**	**Gibraltar**	**Greece**
m-Xylene 108-38-3	TWA: 50 ppm TWA: 220 mg/m³ STEL: 100 ppm STEL: 440 mg/m³ Skin	TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ Skin	TWA: 100 ppm TWA: 440 mg/m³ Ceiling / Peak: 200 ppm Ceiling / Peak: 880 mg/m³ Skin	STEL: 100 ppm STEL: 442 mg/m³ TWA: 50 ppm TWA: 221 mg/m³ Skin	TWA: 100 ppm TWA: 435 mg/m³ STEL: 150 ppm STEL: 650 mg/m³ Skin
p-Xylene 106-42-3	TWA: 50 ppm TWA: 220 mg/m³ STEL: 100 ppm STEL: 440 mg/m³ Skin	TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ Skin	TWA: 100 ppm TWA: 440 mg/m³ Ceiling / Peak: 200 ppm Ceiling / Peak: 880 mg/m³ Skin	STEL: 100 ppm STEL: 442 mg/m³ TWA: 50 ppm TWA: 221 mg/m³ Skin	TWA: 100 ppm TWA: 435 mg/m³ STEL: 150 ppm STEL: 650 mg/m³ Skin
o-Xylene 95-47-6	TWA: 50 ppm TWA: 220 mg/m³ STEL: 100 ppm STEL: 440 mg/m³ Skin	TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ Skin	TWA: 100 ppm TWA: 440 mg/m³ Ceiling / Peak: 200 ppm Ceiling / Peak: 880 mg/m³ Skin	STEL: 100 ppm STEL: 442 mg/m³ TWA: 50 ppm TWA: 221 mg/m³ Skin	TWA: 100 ppm TWA: 435 mg/m³ STEL: 150 ppm STEL: 650 mg/m³ Skin
Ethylbenzene 100-41-4	TWA: 50 ppm TWA: 220 mg/m³ STEL: 200 ppm STEL: 880 mg/m³ Skin	TWA: 20 ppm TWA: 88.4 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ Skin	TWA: 20 ppm TWA: 88 mg/m³ Ceiling / Peak: 40 ppm Ceiling / Peak: 176 mg/m³ Carc* Skin Repr*	STEL: 200 ppm STEL: 884 mg/m³ TWA: 100 ppm TWA: 442 mg/m³ Skin	TWA: 100 ppm TWA: 435 mg/m³ STEL: 125 ppm STEL: 545 mg/m³
Chemical Name	**Ireland**	**Italy**	**Lithuania**	**Luxembourg**	**Malta**
m-Xylene 108-38-3	TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ Skin	TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ Skin TWA: 100 ppm TWA: 434 mg/m³ STEL: 150 ppm STEL: 651 mg/m³ Carc*	TWA: 50 ppm TWA: 200 mg/m³ STEL: 100 ppm STEL: 450 mg/m³ Skin	TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ Skin	
p-Xylene 106-42-3	TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ Skin	TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ Skin TWA: 100 ppm TWA: 434 mg/m³ STEL: 150 ppm STEL: 651 mg/m³ Carc*	TWA: 50 ppm TWA: 200 mg/m³ STEL: 100 ppm STEL: 450 mg/m³ Skin	TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ Skin	
o-Xylene 95-47-6	TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ Skin	TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ Skin TWA: 100 ppm TWA: 434 mg/m³ STEL: 150 ppm STEL: 651 mg/m³ Carc*	TWA: 50 ppm TWA: 200 mg/m³ STEL: 100 ppm STEL: 450 mg/m³ Skin	TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ Skin	
Ethylbenzene 100-41-4	TWA: 100 ppm TWA: 442 mg/m³	TWA: 100 ppm TWA: 442 mg/m³	TWA: 100 ppm TWA: 442 mg/m³	TWA: 100 ppm TWA: 442 mg/m³	

	STEL: 200 ppm STEL: 884 mg/m³ Skin	STEL: 200 ppm STEL: 884 mg/m³ Skin TWA: 20 ppm TWA: 87 mg/m³ Carc*	STEL: 200 ppm STEL: 884 mg/m³ Skin	STEL: 200 ppm STEL: 884 mg/m³ Skin	
Chemical Name	**The Netherlands**	**Norway**	**Poland**	**Portugal**	**Spain**
m-Xylene 108-38-3	TWA: 210 mg/m³ STEL: 442 mg/m³ Skin	TWA: 25 ppm TWA: 108 mg/m³ STEL: 25 ppm STEL: 108 mg/m³ Skin	TWA: 100 mg/m³	TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ Skin Carc*	TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ Skin
p-Xylene 106-42-3	TWA: 210 mg/m³ STEL: 442 mg/m³ Skin	TWA: 25 ppm TWA: 108 mg/m³ STEL: 37.5 ppm STEL: 135 mg/m³ Skin	TWA: 100 mg/m³	TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ Skin Carc*	TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ Skin
o-Xylene 95-47-6	TWA: 210 mg/m³ STEL: 442 mg/m³ Skin	TWA: 25 ppm TWA: 108 mg/m³ STEL: 25 ppm STEL: 108 mg/m³ Skin	TWA: 100 mg/m³	TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ Skin Carc*	TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ Skin
Ethylbenzene 100-41-4	TWA: 215 mg/m³ STEL: 430 mg/m³ Skin	TWA: 5 ppm TWA: 20 mg/m³ STEL: 5 ppm STEL: 20 mg/m³ Skin Carc*	TWA: 200 mg/m³ STEL: 400 mg/m³	TWA: 100 ppm TWA: 442 mg/m³ STEL: 200 ppm STEL: 884 mg/m³ Skin Carc*	TWA: 100 ppm TWA: 441 mg/m³ STEL: 200 ppm STEL: 884 mg/m³ Skin

Chemical Name	**Switzerland**	**Sweden**	**The United Kingdom**
m-Xylene 108-38-3	STEL: 200 ppm STEL: 870 mg/m³ TWA: 100 ppm TWA: 435 mg/m³ Skin	LLV: 50 ppm LLV: 221 mg/m³ Binding STLV: 100 ppm Binding STLV: 442 mg/m³ Skin	TWA: 50 ppm TWA: 220 mg/m³ STEL: 100 ppm STEL: 441 mg/m³ Skin
p-Xylene 106-42-3	STEL: 200 ppm STEL: 870 mg/m³ TWA: 100 ppm TWA: 435 mg/m³ Skin	LLV: 50 ppm LLV: 221 mg/m³ Binding STLV: 100 ppm Binding STLV: 442 mg/m³ Skin	TWA: 50 ppm TWA: 220 mg/m³ STEL: 100 ppm STEL: 441 mg/m³ Skin
o-Xylene 95-47-6	STEL: 200 ppm STEL: 870 mg/m³ TWA: 100 ppm TWA: 435 mg/m³ Skin	LLV: 50 ppm LLV: 221 mg/m³ Binding STLV: 100 ppm Binding STLV: 442 mg/m³ Skin	TWA: 50 ppm TWA: 220 mg/m³ STEL: 100 ppm STEL: 441 mg/m³ Skin
Ethylbenzene 100-41-4	STEL: 50 ppm STEL: 220 mg/m³ TWA: 50 ppm TWA: 220 mg/m³ Skin	LLV: 50 ppm LLV: 220 mg/m³ Binding STLV: 200 ppm Binding STLV: 884 mg/m³ Skin	TWA: 100 ppm TWA: 441 mg/m³ STEL: 125 ppm STEL: 552 mg/m³ Skin

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Chemical Name	**European Union**	**Austria**	**Bulgaria**	**Croatia**	**Czech Republic**
Ethylbenzene 100-41-4			2000 mg/g Creatinine urine at the end of exposure or end of shift Mandelic acid and Phenylglyoxylic acid - total Possible significant absorption through the skin	1.50 mg/L blood during exposure Ethylbenzene 2 ppm final exhaled air about 16 hours after completion of the work shift Ethylbenzene 1.5 g/g Creatinine urine at the end of work shift and at the end of the week Mandelic acid for all results that are expressed as Creatinine, Creatinine	1100 µmol/mmol Creatinine urine end of shift Mandelic acid 1500 mg/g Creatinine urine end of shift Mandelic acid

				concentration less than 0.5 g/L and greater than 3.0 g/L should not be considered	
Chemical Name	**Denmark**	**Finland**	**France**	**Germany**	**Gibraltar**
m-Xylene 108-38-3			1500 mg/g creatinine urine end of shift Methylhippuric acid	1.5 mg/L whole blood end of shift Xylene all isomers 2000 mg/L urine end of shift Methylhippuric(tolur-)acid all isomers	
p-Xylene 106-42-3			1500 mg/g creatinine urine end of shift Methylhippuric acid	1.5 mg/L whole blood end of shift Xylene all isomers 2000 mg/L urine end of shift Methylhippuric(tolur-)acid all isomers	
o-Xylene 95-47-6			1500 mg/g creatinine urine end of shift Methylhippuric acid	1.5 mg/L whole blood end of shift Xylene all isomers 2000 mg/L urine end of shift Methylhippuric(tolur-)acid all isomers	
Ethylbenzene 100-41-4		5.2 mmol/L urine end of shift at end of workweek or exposure period Mandelic acid	1500 mg/g creatinine urine end of shift at end of workweek Mandelic acid Non-specific (observed after the exposure to other substances)	300 mg/g urine end of shift Mandelic acid plus Phenylglyoxylic acid	

Chemical Name	**Hungary**	**Ireland**	**Italy**	**Latvia**	**Luxembourg**
m-Xylene 108-38-3			(ACGIH:) 1.5 g/g Creatinine urine end of shift Methylhippuric acids		
p-Xylene 106-42-3			(ACGIH:) 1.5 g/g Creatinine urine end of shift Methylhippuric acids		
o-Xylene 95-47-6			(ACGIH:) 1.5 g/g Creatinine urine end of shift Methylhippuric acids		
Ethylbenzene 100-41-4	1500 mg/g Creatinine urine at end of workweek, end of shift Mandelic acid 1110 µmol/mmol Creatinine urine at end of workweek, end of shift Mandelic acid	0.7 g/g creatinine urine end of shift at end of workweek Sum of mandelic acid and phenylglyoxylic acid nonspecific, semi-quantitative	(ACGIH:) 0.15 g/g Creatinine urine end of shift at end of workweek Sum of Mandelic acid and Phenylglyoxylic acid Nonspecific, semi-quantitative		

Chemical Name	**Netherlands**	**Norway**	**Poland**	**Portugal**	**Romania**
m-Xylene 108-38-3					3 g/L urine end of shift Methylhippuric acid
p-Xylene 106-42-3					3 g/L urine end of shift Methylhippuric acid
o-Xylene 95-47-6					3 g/L urine end of shift Methylhippuric acid
Ethylbenzene 100-41-4					1.5 g/g Creatinine urine end of work week Mandelic acid

Chemical Name	**Slovakia**	**Spain**	**Switzerland**	**United Kingdom**
m-Xylene 108-38-3	1.5 mg/L blood end of exposure or work shift Xylene all isomers 2000 mg/L urine end of exposure or work shift Methylhippuric acid	1 g/g Creatinine urine end of shift Methylhippuric acids 2	1.5 g/g creatinine urine end of shift, and after several shifts (for long-term exposures) Methylhippuric acid 1.5 mg/L whole blood end	

			of shift Xylol	
p-Xylene 106-42-3	1.5 mg/L blood end of exposure or work shift Xylene all isomers 2000 mg/L urine end of exposure or work shift Methylhippuric acid	1 g/g Creatinine urine end of shift Methylhippuric acids 2	1.5 g/g creatinine urine end of shift, and after several shifts (for long-term exposures) Methylhippuric acid 1.5 mg/L whole blood end of shift Xylol	
o-Xylene 95-47-6	1.5 mg/L blood end of exposure or work shift Xylene all isomers 2000 mg/L urine end of exposure or work shift Methylhippuric acid	1 g/g Creatinine urine end of shift Methylhippuric acids 2	1.5 g/g creatinine urine end of shift, and after several shifts (for long-term exposures) Methylhippuric acid 1.5 mg/L whole blood end of shift Xylol	
Ethylbenzene 100-41-4	12 mg/L urine end of exposure or work shift 2 and 4-Ethylphenol also after all work shifts for long-term exposure 1600 mg/L urine end of exposure or work shift Mandelic acid and Phenylglycolic acid also after all work shifts for long-term exposure	700 mg/g Creatinine urine end of workweek Mandelic acid plus Phenylglyoxylic acid 1;I;S	800 mg/L urine end of shift Mandelic acid and Phenylglyoxylacid	

Derived No Effect Level No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal protective equipment Personal protection equipment should be chosen according to the CEN standards

Eye Protection Safety glasses with side-shields. If splashes are likely to occur, wear:. Goggles.

Skin and Body Protection Wear fire/flame resistant/retardant clothing.

Hand Protection Impervious gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Respiratory Protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Environmental Exposure Controls No information available.

Section 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State Liquid **Appearance** Colorless

Odor Hydrocarbon-like

Property	Values	Remarks/ - Method
pH	No data available	None known
Melting Point/Range	-41 °C	None known
Boiling Point/Boiling Range	139 °C	None known
Flash Point	29 °C	Closed cup
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limits in Air	No data available	None known
Vapor Pressure	No data available.	None known
Vapor Density	No data available.	None known
Relative Density	No data available 0.87	None known
Water Solubility	Insoluble in water.	None known

Solubility in other solvents	Soluble in solvents.	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition Temperature	No data available	None known
Decomposition Temperature	No data available	None known
Viscosity	0.6 cSt @ 40°C	None known

Explosive Properties No information available
Oxidizing Properties No information available

9.2. Other information
VOC Content (%) No information available

Section 10. Stability and reactivity

10.1. Reactivity
Not reactive under normal conditions.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid
Ignitions sources - heat, sparks and open flames.

10.5. Incompatible materials
Strong acids. Strong oxidizing agents.

10.6. Hazardous decomposition products
Carbon oxides.

Section 11. Toxicological information

11.1. Information on toxicological effects

Acute Toxicity

Product Information .

Inhalation Harmful by inhalation. May cause irritation of respiratory tract. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination.

Eye Contact Contact with eyes may cause irritation.

Skin Contact Harmful in contact with skin. Irritating to skin. Prolonged skin contact may defat the skin and produce dermatitis.

Ingestion Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause central nervous system depression.

Acute Toxicity 100% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document:

LD50 Oral 4,300.00 mg/kg
LD50 Dermal 1,278.00 mg/kg
Gas 99,999.00 mg/L
Dust/Mist 99,999.00 mg/L
Vapor 13.00 mg/L

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
m-Xylene	= 5 g/kg (Rat)	= 14100 µL/kg (Rabbit)	
p-Xylene	= 4029 mg/kg (Rat)		= 4740 ppm (Rat) 4 h = 4550 ppm (Rat) 4 h
Ethylbenzene	= 3500 mg/kg (Rat)	= 15400 mg/kg (Rabbit)	= 17.4 mg/L (Rat) 4 h
o-Xylene	= 3608 mg/kg (Rat)	= 14100 mg/kg (Rabbit)	= 4330 ppm (Rat) 6 h

Sensitization No information available.
Mutagenic Effects No information available.

Carcinogenic Effects	No information available.
Reproductive Toxicity	No information available.
Developmental Toxicity	No information available.
STOT - single exposure	See listed target organs below.
STOT - repeated exposure	See listed target organs below.
Target Organ Effects	Central nervous system (CNS). Liver. Kidney. Respiratory system. Cardiovascular system.
Neurological Effects	Repeated or prolonged overexposure to solvents may cause permanent damage to the nervous system. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.
Aspiration Hazard	May be fatal if swallowed and enters airways.

Section 12. Ecological information

12.1. Toxicity

Ecotoxicity Effects
Toxic to aquatic organisms.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
m-Xylene	EC50 72 h: = 11 mg/L (Pseudokirchneriella subcapitata) EC50 72 h: = 4.9 mg/L static (Pseudokirchneriella subcapitata)	LC50 96 h: 13.1 - 16.5 mg/L flow-through (Lepomis macrochirus) LC50 96 h: 13.5 - 17.3 mg/L (Oncorhynchus mykiss) LC50 96 h: 14.3 - 18 mg/L flow-through (Pimephales promelas) LC50 96 h: 2.661 - 4.093 mg/L static (Oncorhynchus mykiss) LC50 96 h: 23.53 - 29.97 mg/L static (Pimephales promelas) LC50 96 h: 30.26 - 40.75 mg/L static (Poecilia reticulata) LC50 96 h: 7.711 - 9.591 mg/L static (Lepomis macrochirus) LC50 96 h: = 12.9 mg/L semi-static (Poecilia reticulata) LC50 96 h: = 13.4 mg/L flow-through (Pimephales promelas) LC50 96 h: = 19 mg/L (Lepomis macrochirus) LC50 96 h: = 780 mg/L semi-static (Cyprinus carpio) LC50 96 h: = 8.4 mg/L semi-static (Oncorhynchus mykiss) LC50 96 h: > 780 mg/L (Cyprinus carpio)		EC50 48 h: 2.81 - 5.0 mg/L Static (Daphnia magna) LC50 48 h: = 0.6 mg/L (Gammarus lacustris) EC50 48 h: = 3.82 mg/L (water flea)
p-Xylene	EC50 3 h: = 105.1 mg/L (Chlorella vulgaris) EC50 72 h: = 11 mg/L (Pseudokirchneriella subcapitata) EC50 72 h: = 3.2 mg/L static (Pseudokirchneriella subcapitata)	LC50 96 h: 13.1 - 16.5 mg/L flow-through (Lepomis macrochirus) LC50 96 h: 13.5 - 17.3 mg/L (Oncorhynchus mykiss) LC50 96 h: 2.661 - 4.093 mg/L static (Oncorhynchus mykiss) LC50 96 h: 23.53 - 29.97 mg/L static (Pimephales promelas) LC50 96 h: 30.26 - 40.75 mg/L static (Poecilia reticulata) LC50 96 h: 7.2 - 9.9 mg/L static (Pimephales promelas) LC50 96 h: 7.711 - 9.591 mg/L static (Lepomis macrochirus) LC50 96 h: = 13.4 mg/L flow-through (Pimephales promelas) LC50 96 h: = 19 mg/L	EC50 = 5.7 mg/L 30 min	EC50 48 h: 3.55 - 6.31 mg/L Static (Daphnia magna) LC50 48 h: = 0.6 mg/L (Gammarus lacustris) EC50 48 h: = 3.82 mg/L (water flea)

		(Lepomis macrochirus) LC50 96 h: = 2.6 mg/L (Oncorhynchus mykiss) LC50 96 h: = 2.6 mg/L static (Oncorhynchus mykiss) LC50 96 h: = 780 mg/L semi-static (Cyprinus carpio) LC50 96 h: = 8.8 mg/L semi-static (Poecilia reticulata) LC50 96 h: > 780 mg/L (Cyprinus carpio)		
o-Xylene	EC50 72 h: = 11 mg/L (Pseudokirchneriella subcapitata) EC50 192 h: = 4.2 mg/L (Pseudokirchneriella subcapitata) EC50 72 h: = 4.7 mg/L static (Pseudokirchneriella subcapitata)	LC50 96 h: 11.6 - 22.4 mg/L flow-through (Lepomis macrochirus) LC50 96 h: 11.6 - 22.4 mg/L flow-through (Pimephales promelas) LC50 96 h: 13.1 - 16.5 mg/L flow-through (Lepomis macrochirus) LC50 96 h: 13.5 - 17.3 mg/L (Oncorhynchus mykiss) LC50 96 h: 2.661 - 4.093 mg/L static (Oncorhynchus mykiss) LC50 96 h: 23.53 - 29.97 mg/L static (Pimephales promelas) LC50 96 h: 30.26 - 40.75 mg/L static (Poecilia reticulata) LC50 96 h: 5.59 - 11.6 mg/L flow-through (Oncorhynchus mykiss) LC50 96 h: 7.711 - 9.591 mg/L static (Lepomis macrochirus) LC50 96 h: = 12 mg/L (Poecilia reticulata) LC50 96 h: = 13.4 mg/L flow-through (Pimephales promelas) LC50 96 h: = 19 mg/L (Lepomis macrochirus) LC50 96 h: = 780 mg/L semi-static (Cyprinus carpio) LC50 96 h: > 780 mg/L (Cyprinus carpio)		EC50 48 h: 0.78 - 2.51 mg/L Static (Daphnia magna) EC50 48 h: 2.61 - 5.59 mg/L Flow through (Daphnia magna) LC50 48 h: = 0.6 mg/L (Gammarus lacustris) EC50 48 h: = 3.2 mg/L (Daphnia magna) EC50 48 h: = 3.82 mg/L (water flea)
Ethylbenzene	EC50 96 h: 1.7 - 7.6 mg/L static (Pseudokirchneriella subcapitata)	LC50 96 h: 4 mg/L static (Rainbow trout)		EC50 48 h: 1-4 mg/L (Daphnia magna)

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

Chemical Name	Log Pow
m-Xylene	3.2
p-Xylene	3.15
o-Xylene	3.12
Ethylbenzene	3.2

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

This product does not contain any known or suspected endocrine disruptors.

Section 13. Disposal considerations

13.1. Waste treatment methods

Waste from Residues / Unused Products	Dispose of in accordance with local regulations.
Contaminated Packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14. Transport information

Note:	The information provided below may not apply to all shipping situations. Consult appropriate Dangerous Goods Regulations for additional requirements and mode-specific, material-specific, or quantity-specific shipping requirements.

IMDG/IMO

14.1. UN-Number	UN1307
14.2. Proper Shipping Name	Xylenes
14.3. Hazard Class	3
14.4. Packing Group	III
Description	UN1307, Xylenes, 3, III, (29°C c.c.)
14.5. Marine Pollutant	None
14.6. Special Provisions	223
EmS No.	F-E, S-D
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available.

RID

14.1. UN-Number	UN1307
14.2. Proper Shipping Name	Xylenes
14.3. Hazard Class	3
14.4. Packing Group	III
Description	UN1307, Xylenes, 3, III
14.5. Environmental hazard	None
14.6. Special Provisions	None
Classification Code	F1

ADR

14.1. UN-Number	UN1307
14.2. Proper Shipping Name	Xylenes
14.3. Hazard Class	3
ADR/RID-Labels	3
14.4. Packing Group	III
Description	UN1307, Xylenes, 3, III, (D/E)
14.5. Environmental hazard	None
14.6. Special Provisions	None
Classification Code	F1

ICAO

14.1. UN-Number	UN1307
14.2. Proper shipping name	Xylenes
14.3. Hazard Class	3
14.4. Packing Group	III
Description	UN1307, Xylenes, 3, III
14.5. Environmental hazard	None
14.6. Special Provisions	A3

IATA

14.1. UN-Number	UN1307
14.2. Proper Shipping Name	Xylenes
14.3. Hazard Class	3
14.4. Packing Group	III
Description	UN1307, Xylenes, 3, III
14.5. Environmental hazard	None
14.6. Special Provisions	A3
ERG Code	3L

Section 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories

TSCA	-
EINECS/ELINCS	Complies
DSL/NDSL	Complies
PICCS	Complies
ENCS	Complies
IECSC	Complies
AICS	Complies
KECL	Complies

Legend
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances

15.2. Chemical Safety Assessment
No information available

Section 16. Other information

Full text of H-Statements referred to under sections 2 and 3
H225 - Highly flammable liquid and vapor
H332 - Harmful if inhaled
H315 - Causes skin irritation
H312 - Harmful in contact with skin
H226 - Flammable liquid and vapor

Key literature references and sources for data
www.ChemADVISOR.com/

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This safety data sheet complies with the requirements of Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No. 1907/2006

General Disclaimer
The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other

material or in any process, unless specified in the text.

End of Safety Data Sheet