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V0	131011 1
1 Identification	
Product identifier Product name: Xylenes	
Stock number: 16371	
CAS Number:	
1330-20-7 EC number: 215-535-7	
215-535-7 Index number:	
601-022-00-9	
Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development	
Details of the supplier of the safety data sheet Manufacturer/Supplier:	
Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street	
30 Bond Street	
Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757	
Email: tech@alfa.com	
www.alfa.com Information Department: Health, Safety and Environmental Department	
Emergency telephone number: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.	
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS02 Flame	
Flam. Liq. 3 H226 Flammable liquid and vapor.	
GHS07	
Acute Tox. 4 H312 Harmful in contact with skin. Acute Tox. 4 H332 Harmful if inhaled.	
Skin Irrit. 2 H315 Causes skin irritation. Hazards not otherwise classified No information known.	
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms	
GHS02 GHS07	
Signal word Warning Hazard statements	
H226 Flammable liquid and vapor. H312+H332 Harmful in contact with skin or if inhaled.	
H315 Causes skin irritation. Precautionary statements	
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P262 Do not get in eyes, on skin, or on clothing. P302+P352 IF ON SKIN: Wash with plenty of water/soap	
P302+P352 IF ON SKIN: Wash with plenty of water/soap	
WHMIS classification B2 - Flammable liquid	
D1A - Very toxic material causing immediate and serious toxic effects D2B - Toxic material causing other toxic effects	
$\textcircled{\below}{\b$	
Classification system HMIS ratings (scale 0-4)	
(Hazardouš Materials Identification System) HEALTH I FIRE I FIRE I	
REACTIVITY 1 Physical Hazard = 1	
Other hazards Results of PBT and vPvB assessment PBT <u>:</u> Not applicable.	
vPvB: Not applicable.	
3 Composition/information on ingredients	
Chemical characterization: Substances CAS# Description:	
1330-20-7 Xylenes Concentration: ≤100%	
Identification number(s): EC number: 215-535-7	
(Contd. on	page 2) USA

Index number: 601-022-00-9

4 First-aid measures

Description of first aid measures

After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed Causes skin irritation. Harmful if inhaled. Harmful in contact with skin. Indication of any immediate medical attention and special treatment needed No further relevant information available

5 Fire-fighting measures

Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away Ensure adequate ventilation Keep away from ignition sources Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. Ensure adequate ventilation. **Prevention of secondary hazards:** Keep away from ignition sources. **Reference to other sections** See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information. **Protective Action Criteria for Chemicals PAC-1:** 130 ppm **PAC-2:** 920⁺ ppm **PAC-3:** 2500⁺ ppm

7 Handling and storage

Handling Precautions for safe handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture. Keep ignition sources away. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters

Components with limit values that require monitoring at the workplace: 133<u>0-20-7 Xylenes (100.0%)</u> Long-term value: 435 mg/m³, 100 ppm Short-term value: 655 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm Short-term value: 651 mg/m³, 150 ppm Long-term value: 434 mg/m³, 100 ppm BEI PEL (USA) REL (USA) TLV (USA) Short-term value: 150 ppm Long-term value: 100 ppm Short-term value: 650 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm EL (Canada) EV (Canada)

(Contd. of page 1)

(Contd. on page 3)

Product name: Aylenes		
Ingredients with biological limit value	5:	(Contd. of page 2)
1330-20-7 Xylenes (100.0%)		
BEI (USA) 1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric a	zids	
Additional information: No data		
Recommended filter device for short Use a respirator with multi-purpose com determine if air-purifying respirators are CEN (EU). Protection of hands: Impervious gloves Check protective gloves prior to each us The selection of suitable gloves not only	andling chemicals should be followed. hing immediately. Id of work. orking environment. pirator when high concentrations are present. erm use: oination (US) or type ABEK (EN 14387) as a backup to engineering controls. Risk assessment should be appropriate. Only use equipment tested and approved under appropriate government standards such as l e for their proper condition. depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.	performed to VIOSH (USA) or
Eye protection: Safety glasses with sid Body protection: Protective work clothi	e snields / NIOSH (US) or EN 166(EU)	
9 Physical and chemical properties		
Information on basic physical and ch		
General Information Appearance: Form:		
Odor: Odor threshold:	Aromatic Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	<-25 °C (<-13 °F) 137-144 °C (279-291 °F) Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	29 °C (84 °F) Not determined. 465 °C (869 °F) Not determined Not determined.	
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure at 20 °C (68 °F): Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water at 20 °C (68 °F): Partition coefficient (n-octanol/water) Viscosity: dynamic at 20 °C (68 °F): kinematic: Other information	Product is not explosive. However, formation of explosive air/vapor mixtures is possible. 1 Vol % 7 Vol % 10 hPa (8 mm Hg) 0.86 g/cm³ (7.177 lbs/gal) Not determined. Not determined. 0.2 g/l Not determined. 0.6 mPas Not determined. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recoming Thermal decomposition / conditions to Possibility of hazardous reactions Re Conditions to avoid No further relevant Incompatible materials: Oxidizing age Hazardous decomposition products:	information available.	
11 Toxicological information Information on toxicological effects Acute toxicity:		
Acute toxicity: Harmful if inhaled. Harmful in contact with skin. Danger through skin absorption.		
LD/LC50 values that are relevant for of Oral LD50 4300 mg/kg (rat)	lassification:	
Skin irritation or corrosion: May cause Eye irritation or corrosion: May cause Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno Carcinogenicity:	irritation wn. wn.	
EPA-I: Data aré inadequate for an asses	sment of human carcinogenic potential.	(Contd. on page 4)

Saf	fety	Data	Sheet
асс.	to O	SHA H	CS

Marine Pollutant (DOT):

Limited quantities (LQ) Excepted quantities (EQ)

UN "Model Regulation":

IMDG

(Contd. of page 3)

IARC-3: Not classifiable as to carcinogenicity to humans. ACGIH A4: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans and/or animals. Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. 12 Ecological information Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: Concretent potes: General notes: Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available. 13 Disposal considerations Waste treatment methods **Recommendation** Consult state, local or national regulations to ensure proper disposal. **Uncleaned packagings: Recommendation:** Disposal must be made according to official regulations. 14 Transport information **UN-Number** DOT, IMDG, IATA UN1307 UN proper shipping name DOT ADR Xylenes 1307 Xylenes XYLENES IMDG, IATA Transport hazard class(es) DOT 8 Class 3 Flammable liquids Labe ADR 3 (F1) Flammable liquids Class Label IMDG, IATA 3 Flammable liquids Class Label Packing group DOT, ADR, IMDG, IATA Environmental hazards: Not applicable. Special precautions for user EMS Number: Warning: Flammable liquids F-E,S-D Stowage Category Α Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: DOT Quantity limitations On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L

No

5L

UN 1307 XYLENES, 3, III

Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

> USA (Contd. on page 5)

15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or r GHS label elements The product is classified and labeled in accordance with 29 CFR 1910	
Safety, health and environmental regulations/legislation specific for the substance or r	
GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 Hazard pictograms	nixture (OSHA HCS)
GHS02 GHS07	
Signal word Warning Hazard statements H226 Flammable liquid and vapor. H312+H332 Harmful in contact with skin or if inhaled. H315 Causes skin irritation. Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P262 Do not get in eyes, on skin, or on clothing. P302+P352 IF ON SKIN: Wash with plenty of water/soap All components of this product are listed in the U.S. Environmental Protection Agency Toxic S All components of this product are listed on the Canadian Domestic Substances List (DSL).	Substances Control Act Chemical substance Inventory.
SARA Section 313 (specific toxic chemical listings)	
1330-20-7 Xylenes California Proposition 65	
 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No The conditions of restrictions according to Article 67 and Annex XVII of the Regulation market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not Chemical safety assessment: A Chemical Safety Assessment has not been carried out. 	
16 Other information Employers should use this information only as a supplement to other information gathered by information to ensure proper use and protect the health and safety of employees. This inform conformance with this Safety Data Sheet, or in combination with any other product or process	r them, and should make independent judgement of suitability of this nation is furnished without warranty, and any use of the product not in s, is the responsibility of the user.
is on on any other product of process	
Department issuing SDS: Global Marketing Department	
Conformance with this Safety Data Sheet, of the combination with any other product of process Department issuing SDS: Global Marketing Department Date of preparation/Revision: Print date, revision date and version number are in the header Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the In IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Hazardous Materials Information System (Canada) LCS0: Lethal concentration, 50 percent DBT: Versistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governulative ACGIH: American Conference of Governulative NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) HARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) Flam. Lig. 3: Flammable liquids – Category 3 Acute Tox: 4: Acute toxicity – Category 2	er of each page. ternational Carriage of Dangerous Goods by Road)

Safety Data Sheet

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