

SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier: TEGO® Dispers 705

Chemical name:

Solution of an ammoniumsalt of higher molecular polycarbonic acid in organic solvent

Other means of identification

None.

Recommended restrictions

Recommended use: Industrial use

Restrictions on use: None known.

Manufacturer/Importer/Distributor Information

Company Name : Evonik Corporation
2 Turner Place
Piscataway, NJ 08854
USA

Telephone : +1 732 981 5000

E-mail : product-regulatory-services@evonik.com

Emergency telephone number:

24-Hour Health : +1 800 424 9300 (CHEMTREC - US & CANADA)

Emergency : 800 681 9531 (CHEMTREC MEXICO)

+1 703 527 3887 (CHEMTREC WORLD)

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable liquids Category 3

Health Hazards

Skin Corrosion/Irritation Category 2

Serious Eye Damage/Eye Irritation Category 1

Carcinogenicity Category 2

Specific Target Organ Toxicity -
Single Exposure Category 3
(Respiratory tract
irritation.)

Specific Target Organ Toxicity -
Repeated Exposure Category 2

Environmental Hazards

Acute hazards to the aquatic
environment Category 2

Chronic hazards to the aquatic
environment Category 3

Label Elements

Hazard Symbol:



Signal Word:

Danger

Hazard Statement:

Flammable liquid and vapor.
Causes skin irritation.
Causes serious eye damage.
Suspected of causing cancer.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.
Toxic to aquatic life.
Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical equipment. Use non-sparking tools. Take action to prevent static discharges. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid release to the environment.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. If skin irritation occurs: Get medical advice/attention. Immediately call a POISON CENTER/doctor. Specific treatment (see on this label). Take off contaminated clothing. In case of fire: Use... to extinguish.

Storage:

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

Disposal:

Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC):

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment.

3. Composition/information on ingredients

Chemical name:

Solution of an ammoniumsalt of higher molecular polycarbonic acid in organic solvent

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%) [*]
xylene, mixture of isomers		1330-20-7	25 - <50%
isobutanol		78-83-1	10 - <20%
ethylbenzene		100-41-4	10 - <20%
Maleic acid		110-16-7	0.1 - <1%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The exact concentration has been withheld as a trade secret.

4. First-aid measures
Description of necessary first-aid measures

General information:	Remove soiled or soaked clothing immediately
Inhalation:	If inhaled remove from side of exposure to fresh air, seek medical advice.
Skin Contact:	In case of contact with skin wash off immediately with soap and water If skin irritation persists, call a physician.
Eye contact:	In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice
Ingestion:	Thoroughly clean the mouth with water In case of discomfort: Supply with medical care.
Personal Protection for First-aid Responders:	No data available.

Most important symptoms and effects, both acute and delayed

Symptoms:	Serious eye irritation skin irritation possible Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons.
Hazards:	No data available.

Indication of immediate medical attention and special treatment needed

Treatment:	Treat symptomatically.
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5. Fire-fighting measures
Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: foam, carbon dioxide, dry powder, water spray.

Unsuitable extinguishing media: High volume water jet.

Special hazards arising from the substance or mixture:

In the event of fire the following can be released: - Carbon monoxide, carbon dioxide, silicon dioxide Under certain conditions of combustion traces of other toxic substances cannot be excluded

Special protective equipment and precautions for fire-fighters

Special fire-fighting procedures:	Keep away from sources of ignition. Take action to prevent static discharges. Vapours may form explosive mixtures with air. Cool endangered containers by water spray
Special protective equipment for fire-fighters:	Do not inhale explosion and/or combustion gases. Self-contained breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Keep away sources of ignition. Ensure adequate ventilation.
Accidental release measures:	No data available.
Methods and material for containment and cleaning up:	Take up with absorbent material (eg sand, kieselguhr, universal binder) Dispose of absorbed material in accordance with the regulations.
Environmental Precautions:	Prevent product from getting into subsoil/soil. Do not allow to enter drains or waterways

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation):	No data available.
Safe handling advice:	Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid contact with skin and eyes. Do not inhale gases/vapours/aerosols.
Contact avoidance measures:	No data available.

Storage

Safe storage conditions:	Keep container tightly closed in a cool, well-ventilated place. Keep away from heat. Do not store with acids or alkalies Do not store together with oxidizing agents. Do not use plastic containers.
Safe packaging materials:	No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
xylene, mixture of isomers	TWA	100 ppm	US. ACGIH Threshold Limit Values, as amended (03 2016)
	STEL	150 ppm	US. ACGIH Threshold Limit Values, as amended (03 2016)
	STEL	150 ppm 655 mg/m3	US. NIOSH: Pocket Guide to Chemical

				Hazards, as amended (2016)
	REL	100 ppm	435 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2016)
	PEL	100 ppm	435 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (03 2016)
	AN ESL		180 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)
	ST ESL		510 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)
	ST ESL		2,200 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)
	AN ESL		41 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)
isobutanol	TWA	50 ppm		US. ACGIH Threshold Limit Values, as amended (03 2016)
	REL	50 ppm	150 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
	PEL	100 ppm	300 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (03 2016)
ethylbenzene	TWA	20 ppm		US. ACGIH Threshold Limit Values, as amended (03 2016)
	REL	100 ppm	435 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
	STEL	125 ppm	545 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
	PEL	100 ppm	435 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (03 2016)

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological Limit Values

Chemical name	Parameters / Sampling Time	Exposure Limit Values	Source
xylene, mixture of isomers	Methylhippuric acids Sampling time: End of shift.	1.5 g/g (Creatinine in urine)	ACGIH BEI (03 2016)
ethylbenzene	Sum of mandelic acid and phenylglyoxylic acid Sampling time: End of shift.	0.15 g/g (Creatinine in urine)	ACGIH BEI (03 2016)

Appropriate Engineering Controls

No data available.

Individual protection measures, such as personal protective equipment

Eye/face protection:

Tightly fitting safety goggles

Skin Protection

Hand Protection:	Material: Nitrile rubber. Break-through time: 30 min
Skin and Body Protection:	protective clothing
Respiratory Protection:	in case of formation of vapours/aerosols: Short term: filter apparatus, combination filter A-P2
Hygiene measures:	Wash hands before breaks and immediately after handling the product. When using do not eat, drink or smoke. Remove soiled or soaked clothing immediately.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	Light brown
Odor:	of xylene
Odor Threshold:	not measured
Freezing point:	not measured
Boiling Point:	not measured
Flammability:	not measured
Upper/lower limit on flammability or explosive limits	
Explosive limit - upper:	not measured
Explosive limit - lower:	not measured
Flash Point:	77 °F/25 °C (DIN 53213)
Self Ignition Temperature:	not measured
Decomposition Temperature:	not measured
pH:	Not applicable substance/mixture is non-soluble (in water)

Viscosity

Dynamic viscosity:	100 mPa.s (68 °F/20 °C)
Kinematic viscosity:	108 mm ² /s (68 °F/20 °C, calculated)
Flow Time:	No data available.

Solubility(ies)

Solubility in Water:	Insoluble
Solubility (other):	not measured
Partition coefficient (n-octanol/water):	not measured

Vapor pressure:	not measured
Relative density:	not measured
Density:	0.93 g/cm ³ (68 °F/20 °C) (DIN 51757)
Bulk density:	No data available.
Relative vapor density:	not measured

Other information

Explosive properties:	not measured
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Oxidizing properties:	not oxidizing
Minimum ignition temperature:	not measured
Metal Corrosion:	Does not corrode metal.
Evaporation Rate:	not measured

10. Stability and reactivity

Reactivity:	see section "Possibility of hazardous reactions".
Chemical Stability:	The product is stable under normal conditions.
Possibility of hazardous reactions:	No hazardous reactions with proper storage and handling
Conditions to avoid:	Open flames, sparks or input of much heat
Incompatible Materials:	Oxidizing agent acids alkalines
Hazardous Decomposition Products:	None with proper storage and handling.

11. Toxicological information

Information on toxicological effects

Information on likely routes of exposure

Inhalation:	Information on effects are given below.
Skin Contact:	Information on effects are given below.
Eye contact:	Information on effects are given below.
Ingestion:	Information on effects are given below.

Acute toxicity (list all possible routes of exposure)

Oral Product: No data available.

Dermal Product: No data available.

Inhalation Product: No data available.

Repeated dose toxicity Product: No data available.

Skin Corrosion/Irritation Product: No data available.

Serious Eye Damage/Eye Irritation Product: No data available.

Respiratory or Skin Sensitization

Product: Magnussona i Kligmana., OECD 406 (Guinea Pig): Not a skin sensitizer. The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

Carcinogenicity**Product:** No data available.**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

ethylbenzene Overall evaluation: 2B. Possibly carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogens present or none present in regulated quantities

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

No data available.

In vitro**Product:** No data available.**Components:**

xylene, mixture of isomers	Chromosomal aberration: negative
ethylbenzene	sister chromatid exchange assay: negative
	gene mutation test (OECD 476): negative
	Chromosomal aberration (OECD 473): negative
Maleic acid	Ames test: negative Own study

In vivo**Product:** No data available.**Components:**

xylene, mixture of isomers	dominant lethal test (OECD 478) Dermal (Mouse, Male): negative
ethylbenzene	dominant lethal test (OECD 478) Intraperitoneal (Mouse, Male): negative
	Micronucleus test (OECD 474) Oral (Mouse, Male): negative
	unscheduled DNA synthesis assay (OECD 486) Inhalation - vapor (Mouse, Female, Male): negative
Maleic acid	Chromosomal aberration (OECD 475) Inhalation - dust and mist (Rat, Female, Male): negative Literature

Reproductive toxicity**Product:** No data available.**Specific Target Organ Toxicity - Single Exposure****Product:** No data available.**Specific Target Organ Toxicity - Repeated Exposure****Product:** No data available.**Aspiration Hazard****Product:** Not classified**Information on health hazards****Other hazards****Product:** No data available.**12. Ecological information****Ecotoxicity:****Acute hazards to the aquatic environment:**

Fish
Product: No data available.

Aquatic Invertebrates
Product: No data available.

Toxicity to Aquatic Plants
Product: No data available.

Components:

xylene, mixture of isomers	EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): 4.36 mg/l (OECD 201) growth rate EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): 2.2 mg/l (OECD 201) Biomass
isobutanol	EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): 632 mg/l (OECD 201) Literature EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): 1,799 mg/l (OECD 201)
ethylbenzene	EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): 5.4 mg/l (US-EPA-method) EC 50 (Skeletonema costatum (marine diatom), 72 h): 4.9 mg/l (US-EPA-method) saltwater
Maleic acid	EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): 74.35 mg/l (OECD 201) Literature

Toxicity to microorganisms
Product: No data available.

Chronic hazards to the aquatic environment:
Fish
Product: No data available.

Aquatic Invertebrates
Product: No data available.

Toxicity to Aquatic Plants
Product: No data available.

Components:

xylene, mixture of isomers	NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): 1.3 mg/l (OECD 201) growth rate NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): 0.44 mg/l (OECD 201) Biomass
isobutanol	NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): 53 mg/l (OECD 201) Literature

Toxicity to microorganisms
Product: No data available.

Persistence and Degradability
Biodegradation
Product: No data available.

BOD/COD Ratio
Product: No data available.

Bioaccumulative potential
Bioconcentration Factor (BCF)
Product: No data available.

Product name: TEGO® Dispers 705

Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: not measured

Mobility in soil:

Product No data available.

Results of PBT and vPvB assessment:

Product No data available.

Other adverse effects:**Other hazards**

Product: Do not allow to enter soil, waterways or waste water canal.

13. Disposal considerations**Disposal methods:** In accordance with local authority regulations, take to special waste incineration plant**Contaminated Packaging:** If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.**14. Transport information****Domestic regulation****49 CFR**UN/ID/NA number : UN 1993
Proper shipping name : Flammable liquids, n.o.s.Class : 3
Packing group : III
Labels : 3
ERG Code : 128
Marine pollutant : no**International Regulations****IATA-DGR**UN/ID No. : UN 1993
Proper shipping name : Flammable liquid, n.o.s.
(Xylene, Isobutanol)Class : 3
Packing group : III
Labels : 3
Packing instruction (cargo aircraft) : 366
Packing instruction (passenger aircraft) : 355**IMDG-Code**UN number or ID number : UN 1993
Proper shipping name : FLAMMABLE LIQUID, N.O.S.
(Xylene, Isobutanol)Class : 3
Packing group : III
Labels : 3
EmS Code : F-E, S-E

Product name: TEGO® Dispers 705

Marine pollutant : no
Remarks : Stowage category A

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. Regulatory information**US Federal Regulations****TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):**Chemical Identity**

BENZENE, DIMETHYL
1-PROPANOL, 2-METHYL-
ETHYLBENZENE
MALEIC ACID
BENZENE, METHYL-

Superfund Amendments and Reauthorization Act of 1986 (SARA)**Hazard categories**

Flammable (gases, aerosols, liquids, or solids), Skin Corrosion or Irritation, Serious eye damage or eye irritation, Carcinogenicity, Specific target organ toxicity (single or repeated exposure), Hazards Not Otherwise Classified (HNOC)

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

None present or none present in regulated quantities.

US. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting

<u>Chemical Identity</u>	<u>% by weight</u>
XYLENE (MIXED ISOMERS)	1.0%
ETHYLBENZENE	0.1%

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).
None present or none present in regulated quantities.

Product name: TEGO® Dispers 705
Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

Chemical Identity

 XYLENE (MIXED)
 ETHYLBENZENE
 MALEIC ACID
 TOLUENE

US State Regulations
US. California Proposition 65


WARNING: This product can expose you to chemicals including, ethylbenzene which is [are] known to the State of California to cause cancer.

This product can expose you to chemicals including, Toluene which is [are] known to the State of California to cause birth defects or other reproductive harm.

 For more information go to www.P65Warnings.ca.gov.

Inventory Status:

US TSCA Inventory:	Included on Inventory.	
Canada DSL Inventory List:	Not on Inventory.	Evonik has submitted a non-Final NSN (New Substance Notification) for this substance.

16. Other information, including date of preparation or last revision
HMIS Hazard ID

Health	*	3
Flammability		3
Physical Hazards		0
PERSONAL PROTECTION		K

K - Hood, Gloves, Protective Suit & Boots

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

Issue Date: 03/13/2019

Version #: 1.2

Further Information: No data available.

Revision Information

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Disclaimer:

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