

Product name: TEGO® Dispers 652

SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

1. Identification

Product identifier: TEGO® Dispers 652

Chemical name:

Solution of an ammoniumsalt of higher molecular polycarbonic acid

Other means of identification

None.

Recommended restrictions

Recommended use: Industrial use
Restrictions on use: None known.

Manufacturer/Importer/Distributor Information

Company Name : Evonik Corporation
Nutrition & Care
7801 Whitepine Road
Richmond, VA 23237
USA

Telephone : +1 804 727 0700
Fax : +1 804 727 0845
E-mail : product-regulatory-services@evonik.com

Emergency telephone number:

24 Hour Emergency : +1 800 424 9300 (CHEMTREC - US & CANADA)
Telephone : 800 681 9531 (CHEMTREC MEXICO)
+1 703 527 3887 (CHEMTREC WORLD)

2. Hazard(s) identification

Hazards for the product as supplied

Not classified

Hazard(s) not otherwise classified (HNOC): None.

Label Elements

Hazard Symbol: No symbol
Signal Word: No signal word.
Hazard Statement: Not applicable

Product name: TEGO® Dispers 652

**Precautionary
Statements****3. Composition/information on ingredients****Chemical name:**

Solution of an ammoniumsalt of higher molecular polycarbonic acid

Substances**Composition information of impurities and stabilizers**

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Maleic acid		110-16-7	0.29%

* 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 first aid measures**

General information:	Remove soiled or soaked clothing immediately
Inhalation:	fresh air supply, consult a doctor if feeling unwell.
Skin Contact:	In case of contact with skin wash off with soap and water. In case of discomfort: Supply with medical care.
Eye contact:	In case of contact with eyes rinse thoroughly with water. In case of discomfort: Supply with medical care.
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:	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.
-------------------	------------------------

5. Fire-fighting measures**Suitable (and unsuitable) extinguishing media**

Product name: TEGO® Dispers 652

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 dioxide, carbon monoxide - Nitrogen oxides (NOx) Under certain conditions of combustion traces of other toxic substances cannot be excluded

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No specific precautions.

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.

Accidental release measures: No data available.

Methods and material for containment and cleaning up: Take up with absorbent material (eg sand, diatomaceous earth, universal binder) Dispose of absorbed material in accordance with the regulations.

Environmental Precautions: Do not allow to enter drains or waterways Prevent product from getting into subsoil/soil.

7. Handling and storage

Handling

Technical measures: No data available.

Local/Total ventilation: No data available.

Safe handling advice: Provide good ventilation of working area (local exhaust ventilation if necessary). Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes.

Contact avoidance measures: No data available.

Storage

Safe storage conditions: Keep container tightly closed in a cool, well-ventilated place. Protect from frost. Do not store with acids or alkalies. Do not store together with oxidizing agents.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Product name: TEGO® Dispers 652

Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

Appropriate Engineering Controls

Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product. If local exhaust is not available, general (mechanical) ventilation is acceptable, if exposure is maintained below the TLV.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection: Safety glasses

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: Viscous Liquid
Color: Dark brown

Odor: faint inherent odor

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: > 410 °F/> 210 °C
Method: DIN 53213

Product name: TEGO® Dispers 652

Auto-ignition temperature:	not measured
Decomposition Temperature:	not measured
pH:	Not applicable
Viscosity	
Dynamic viscosity:	1,000 - 2,000 mPa.s (77 °F/25 °C)
Kinematic viscosity:	1020 - 2041 mm ² /s (77 °F/25 °C), Method: 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:	0.96 - 0.98 g/cm ³ (77 °F/25 °C) Method: DIN 51757
Bulk density:	No data available.
Relative vapor density:	not measured
Particle characteristics:	Not applicable.
Other information	
Explosive properties:	not measured
Oxidizing properties:	not oxidizing
Self-ignition:	not measured
Metal Corrosion:	Not corrosive to metals
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:	Freezing.
Incompatible Materials:	Oxidizing agents. Acids. Alkalies.
Hazardous Decomposition Products:	None with proper storage and handling.

Product name: TEGO® Dispers 652

11. Toxicological information

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.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Acute toxicity (list all possible routes of exposure)

Oral

Product:	LD 50, Rat, > 2,000 mg/kg, OECD 423, Own study
Components:	
Maleic acid	LD 50, Rat, Female, Male, 1,180 mg/kg, Own study LD 50, Rat, Female, Male, 1,030 mg/kg, OECD 401, Literature

Dermal

Product:	Not classified for acute toxicity based on available data.
Components:	
Maleic acid	LD 50, Rabbit, 1,560 mg/kg, Literature

Inhalation

Product:	Not classified for acute toxicity based on available data.
Components:	
Maleic acid	Vapour, Not toxic after single exposure, No data available. Dust and mist, Not toxic after single exposure, No data available.

Repeated dose toxicity

Product:	No data available.
-----------------	--------------------

Skin Corrosion/Irritation

Product:	Not irritating, OECD 439, (Human, reconstructed epidermis (RhE) model), Not irritating, Own study
Components:	
Maleic acid	Irritating., OECD 404, Rabbit, 4 h, Own study Irritating., OECD 435, Reconstituted skin membranes

Serious Eye Damage/Eye Irritation

Product:	Not irritating, OECD 437, Bovine cornea, Not irritating, Own study
Components:	
Maleic acid	Risk of serious damage to eyes., OECD 405, Rabbit, 24 h, Own study

Respiratory or Skin Sensitization

Product name: TEGO® Dispers 652

Product: Magnussona i Kligmana., OECD 406, Guinea Pig, Not a skin sensitizer., Own study

Components:
 Maleic acid Local Lymph Node Assay (LLNA), OECD 429, Mouse, May cause sensitization by skin contact., Literature
 Maximization Test, OECD 406, Guinea Pig, May cause sensitization by skin contact.
 Not a respiratory sensitizer

Carcinogenicity

Product: No data available.

Components:
 Maleic acid Not classified

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogens present or none present in regulated quantities

ACGIH: US.ACGIH Threshold Limit Values:

No carcinogens present or none present in regulated quantities

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

No carcinogens present or none present in regulated quantities

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended:

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

No data available.

In vitro

Product: Bacterial reverse mutation assay, OECD 471: , negative, Own study

Components:
 Maleic acid Ames test: , negative, Own study

In vivo

Components:
 Maleic acid Chromosomal aberration, OECD 475, Inhalation - dust and mist, Rat, Female, Male, negative, Literature

Reproductive toxicity

Effects on fertility

Not classified based on available data.

Effects on fetal development

Components:
 Maleic acid Species: Rat, Female, Male
 Route: Oral
 Duration of Single Treatment: 20 day
 General Toxicity Maternal: 140 mg/kg body weight
 Teratogenicity: 140 mg/kg body weight

Reproductive toxicity - Assessment

Product: Reproductive toxicity: No data available.
 Teratogenicity: No data available.

Components:
 Maleic acid Reproductive toxicity: Not classified

Product name: TEGO® Dispers 652

Specific Target Organ Toxicity - Single Exposure**Product:** No data available.**Components:**

Maleic acid Inhalation - vapor, Respiratory system, Category 3 with respiratory tract irritation., May cause respiratory irritation.

Specific Target Organ Toxicity - Repeated Exposure**Product:** No data available.**Aspiration Hazard****Product:** Not classified**Components:**

Maleic acid Not classified

Information on health hazards**Other hazards****Product:** No data available.**12. Ecological information****Ecotoxicity:****Toxicity to Aquatic Plants****Product:** ErC50, Algae (*Pseudokirchneriella subcapitata*), 72 h, > 100 mg/l, OECD 201, Own study
ErC10, Algae (*Pseudokirchneriella subcapitata*), 72 h, 16.2 mg/l, OECD 201, Own study**Components:**Maleic acid EC 50, Algae (*Pseudokirchneriella subcapitata*), 72 h, 74.35 mg/l, OECD 201, Literature**Toxicity to microorganisms****Product:** No data available.**Components:**Maleic acid EC 10, *Pseudomonas putida*, 18 h, 44.6 mg/l, DIN 38412**Toxicity to soil dwelling organisms****Product:** No data available.**Toxicity to terrestrial organisms****Product:** No data available.**Acute hazards to the aquatic environment:****Fish****Product:** No data available.**Components:**Maleic acid LC 50, *Oncorhynchus mykiss*, 96 h, 75 mg/l**Aquatic Invertebrates****Product:** No data available.**Components:**Maleic acid NOEC, *Daphnia magna*, 48 h, 17.5 mg/l/OECD 202
EC 50, *Daphnia magna*, 48 h, 42.81 mg/l/OECD 202

Product name: TEGO® Dispers 652

LOEL, Daphnia magna, 48 h, 30.63 mg/LOECD 202

Chronic hazards to the aquatic environment:**Fish****Product:** No data available.**Aquatic Invertebrates****Product:** No data available.**Persistence and Degradability****Biodegradation****Product:** No data available.**Components:**

Maleic acid 97 %, 28 d, OECD 301 B, The product is easily biodegradable., aerobic

BOD/COD Ratio

No data available.

Bioaccumulative potential**Bioconcentration Factor (BCF)****Product:** No data available.**Partition Coefficient n-octanol / water (log Kow)****Product:** not measured**Components:**

Maleic acid -0.48, Literature

Mobility in soil:**Product:** No data available.**Results of PBT and vPvB assessment:**

No data available.

Other adverse effects:**Additional ecological information****Product:** Do not allow to enter soil, waterways or waste water canal.**Ozone-Depletion Potential****Product:** Regulation: No**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**

Product name: TEGO® Dispers 652

Not regulated as a dangerous good

International Regulations**UNRTDG**

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

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 (on the basis of current knowledge of the product composition).

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721 and 725, Subpt E)

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

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

Not classified

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 (on the basis of current knowledge of the product composition).

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

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

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

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

Product name: TEGO® Dispers 652

US State Regulations

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

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	1
Flammability	1
Physical Hazards	0
PERSONAL PROTECTION	X

Ask supervisor or safety specialist for handling instructions

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

Version #: 2.0

Revision Date: 09/03/2025

Date of first report version: 03/13/2019

Abbreviations and acronyms:

AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship;

Product name: TEGO® Dispers 652

RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further Information: CTFA: complies

Revision Information Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

Disclaimer: This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice.