SAFETY DATA SHEET

1. Identification

Product identifier: TEGO® Dispers 676

Chemical name: Polymer with pigment affinity groups

Other means of identification

Recommended use: Industrial use

Recommended restrictions: None known.

Manufacturer/Importer/Distributor Information

Company Name : Evonik Australia Pty Ltd
Suites 33&37
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Australia

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Fax : +61 3 9544 5002

E-mail : productsafety-cs@evonik.com

Emergency telephone number:

24-Hour Health Emergency : +61 2 9037 2994

+1 703 527 3887 (CHEMTREC WORLD)

2. Hazard(s) identification

Classification according to GHS

Physical Hazards

Flammable liquids	Category 3

Health Hazards

Acute toxicity (Oral)	Category 5
Serious Eye Damage/Eye Irritation	Category 2A

Environmental Hazards

Acute hazards to the aquatic environment	Category 3

Label Elements

Hazard Symbol:

Signal Word: Warning

Hazard Statement: Flammable liquid and vapor.
May be harmful if swallowed.
Causes serious eye irritation.
Harmful to aquatic life.

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, ventilating and lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Wash face, hands and any exposed skin thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response: Call a POISON CENTER or doctor/ physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Storage: Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

Other hazards: None known.

3. Composition/information on ingredients

Chemical name:
Polymer with pigment affinity groups

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Butyl acetate	No data available.	123-86-4	10 - <30%
Lauric acid	No data	143-07-7	<3%

	available.		

* 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: 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 plenty of water. If symptoms persist, 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

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

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 Under certain conditions of combustion traces of other toxic substances cannot be excluded

Special protective equipment and precautions for firefighters

Special fire fighting procedures: Keep away from sources of ignition - no smoking. 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. Ensure adequate ventilation. Keep away sources of ignition.
Accidental release measures:	No data available.
Methods and material for containment and cleaning up:	Take up with absorbent material (eg sand, kieselguhr, acid binder, universal binder, sawdust). 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 (e.g. Local and general ventilation):	No data available.
Safe handling advice:	Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes.Provide good ventilation of working area (local exhaust ventilation if necessary).
Contact avoidance measures:	No data available.

Storage

Safe storage conditions:	Keep container tightly closed in a cool, well-ventilated place.Keep away from direct sunlight. Protect from frost.
Safe packaging materials:	No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Observe national threshold limit values.

Biological Limit Values

Observe national threshold limit values.

Appropriate Engineering Controls No data available.

Individual protection measures, such as personal protective equipment

General information:	No data available.
Eye/face protection:	Safety glasses

Skin Protection

Hand Protection:	Material: Nitrile rubber. Break-through time: 10 min Glove thickness: 0.5 mm
Other:	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:	Amber
Odor:	specific to the product
Odor Threshold:	not measured
Freezing point:	not measured
Boiling Point:	261 °F/127 °C Solvent
Flammability:	not measured

Upper/lower limit on flammability or explosive limits

Explosive limit - upper:	not measured
Explosive limit - lower:	not measured
Flash Point:	93 °F/34 °C (DIN EN ISO 2719)
Autoignition Temperature:	not measured
Decomposition Temperature:	not measured
pH:	Not applicable

Viscosity

Dynamic viscosity:	2,220 mPa.s (77 °F/25 °C, DIN 53015)
Kinematic viscosity:	2176 mm2/s (77 °F/25 °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:	1.02 g/cm3 (77 °F/25 °C)
Bulk density:	No data available.
Relative vapor density:	not measured

Other information

Explosive properties:	not measured
Oxidizing properties:	not oxidizing
Minimum ignition temperature:	779 °F/415 °C Solvent
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:	Open flames, sparks or input of much heat direct sunlight Freezing.
Incompatible Materials:	Not known.
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:	LD 50 (Rat): > 2,000 mg/kg (OECD 423)
Components:	
Butyl acetate	LD 50 (Rat): 10,760 mg/kg LD 50 (Rat): 12,789 mg/kg

Lauric acid	LD 50 (Rat): > 5,000 mg/kg

Dermal

Product:	LD 50 (ATEmix): > 5,000 mg/kg
Components:	
Butyl acetate	LD 50 (Rabbit): > 14,112 mg/kg
Lauric acid	LD 50 (Rabbit): > 2,000 mg/kg

Inhalation

Product:	No data available.
Components:	
Butyl acetate	LC 50 (Rat, 4 h): 23.4 mg/l Dust and mist No data available., Vapour
Lauric acid	No classification, Vapour Not applicable, Dust and mist

Repeated dose toxicity

Product:	No data available.
Components:	
Butyl acetate	No data available.
Lauric acid	No data available.

Skin Corrosion/Irritation

Product:	No data available.
Components:	
Butyl acetate	OECD 404 (Rabbit): Not irritating
Lauric acid	OECD 404 (Rabbit): Not irritating

Serious Eye Damage/Eye Irritation

Product:	No data available.
Components:	
Butyl acetate	OECD 405 (Rabbit): Not irritating
Lauric acid	OECD 405 (Rabbit): Risk of serious damage to eyes.

Respiratory or Skin Sensitization

Product:	No data available.
Components:	
Butyl acetate	Maximization Test, OECD 406 (Guinea Pig): Not a skin sensitizer.
Lauric acid	Buehler Test (Guinea Pig): Not a skin sensitizer.

Carcinogenicity

Product:	No data available.
Components:	
Butyl acetate	No data available.
Lauric acid	No data available.

Germ Cell Mutagenicity

No data available.

In vitro

Product:	No data available.
Components:	
Butyl acetate	No data available.
Lauric acid	No data available.

In vivo

Product:	No data available.
Components:	
Butyl acetate	No data available.
Lauric acid	No data available.

Reproductive toxicity

Product:	No data available.
Components:	
Butyl acetate	No data available.
Lauric acid	No data available.

Specific Target Organ Toxicity - Single Exposure

Product:	No data available.
Components:	
Butyl acetate	Inhalation - vapor: Central nervous system. - Category 3 with narcotic effects. May cause drowsiness or dizziness.
Lauric acid	No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product:	No data available.
Components:	
Butyl acetate	No data available.
Lauric acid	No data available.

Aspiration Hazard

Product:	Not classified
Components:	
Butyl acetate	Not classified
Lauric acid	Not applicable

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.
Components:	
Butyl acetate	LC 50 (Pimephales promelas, 96 h): 18 mg/l
Lauric acid	LC 50 (Oryzias latipes, 96 h): 5 mg/l

Aquatic Invertebrates

Product:	No data available.
Components:	
Butyl acetate	EC 50 (Daphnia magna, 48 h): 44 mg/l
Lauric acid	EC 50 (Daphnia magna, 48 h): 3.6 mg/l NOEC (Daphnia magna, 48 h): 1.5 mg/l

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
Butyl acetate	EC 50 (Desmodesmus subspicatus (green algae), 72 h): 647 mg/l growth rate
Lauric acid	EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 7.6 mg/l (OECD 201) EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 7.6 mg/l (OECD 201)

Toxicity to microorganisms

Product:	No data available.
Components:	
Butyl acetate	IC 50 (Tetrahymena pyriformis, 40 h): 356 mg/l
Lauric acid	EC0 (Pseudomonas putida, 0.5 h): 1,000 mg/l (OECD 209)

Toxicity to soil dwelling organisms

Product:	No data available.
Components:	
Butyl acetate	No data available.
Lauric acid	No data available.

Toxicity to terrestrial organisms

Product:	No data available.
Components:	
Butyl acetate	No data available.
Lauric acid	No data available.

Chronic hazards to the aquatic environment:

Fish

Product:	No data available.
Components:	
Butyl acetate	No data available.
Lauric acid	NOEC (Danio rerio, 28 d): 6.4 mg/l LC 50 (Danio rerio, 28 d): 9.8 mg/l

Aquatic Invertebrates

Product:	No data available.
Components:	
Butyl acetate	No data available.
Lauric acid	NOEC (Daphnia magna, 21 d): 1.294 mg/l (OECD 211)

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
Butyl acetate	NOEC (Desmodesmus subspicatus (green algae), 72 h): 200 mg/l growth rate
Lauric acid	NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): 7.6 mg/l (OECD

201)
NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): 4.4 mg/l (OECD 201)

Toxicity to microorganisms

Product:	No data available.
Components:	
Butyl acetate	IC 50 (Tetrahymena pyriformis, 40 h): 356 mg/l
Lauric acid	EC0 (Pseudomonas putida, 0.5 h): 1,000 mg/l (OECD 209)

Toxicity to soil dwelling organisms

Product:	No data available.
Components:	
Butyl acetate	No data available.
Lauric acid	No data available.

Toxicity to terrestrial organisms

Product:	No data available.
Components:	
Butyl acetate	No data available.
Lauric acid	No data available.

Persistence and Degradability

Biodegradation

Product:	No data available.
Components:	
Butyl acetate	83 % (28 d, OECD 301 D) The product is easily biodegradable., aerobic
Lauric acid	86 % (30 d, OECD 301 D) The product is easily biodegradable., aerobic

BOD/COD Ratio

Product:	No data available.
Components:	
Butyl acetate	No data available.
Lauric acid	No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product:	No data available.
Components:	
Butyl acetate	No data available.
Lauric acid	No data available.

Partition Coefficient n-octanol / water (log Kow)

Product:	Log Kow: not measured
Components:	
Butyl acetate	Log Kow: 2.3 (OECD 117)
Lauric acid	Log Kow: 5 (QSAR)

Mobility in soil:

Product	No data available.
Components:	
Butyl acetate	No data available.

Lauric acid	No data available.

Product No data available.
Components:

Butyl acetate	No data available.
Lauric acid	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

ADG

UN number or ID number	:	UN 1993
Proper shipping name	:	FLAMMABLE LIQUID, N.O.S.
Class	:	3
Packing group	:	III
Labels	:	3
Hazchem Code	:	•3Y

International Regulations

IATA-DGR

UN/ID No.	:	UN 1993
Proper shipping name	:	Flammable liquid, n.o.s. (CONTAINS BUTYLACETATE)
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. (CONTAINS BUTYLACETATE)
Class	:	3
Packing group	:	III
Labels	:	3
EmS Code	:	F-E, S-E
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

International regulations

Montreal protocol
Not applicable

Stockholm convention
Not applicable

Rotterdam convention
Not applicable

Kyoto protocol
Not applicable

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

Issue Date: 22.07.2019

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.

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