

Product name: TEGO® Dispers 655

SAFETY DATA SHEET

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name:
TEGO® Dispers 655

Chemical name:
Polyetherphosphate

Additional identification

Chemical name: Oxirane, phenyl-, polymer with oxirane, mono(dihydrogen phosphate), decyl ethers
Chemical formula: -
INDEX No. -
CAS-No. 308336-53-0
EC No. 620-301-6
REACH Registration No.: -

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

Identified uses: Industrial use

Uses advised against: None known.

1.3 Details of the supplier of the safety data sheet

Company Name : Evonik Operations GmbH
Rellinghauser Str. 1-11
45128 Essen
Germany

Telephone : +49 201 173 01
Fax : +49 201 173 3000
E-mail : productsafety-sp@evonik.com

1.4 Emergency telephone number:

24-Hour Health : +49 2365 49 2232
Emergency : +49 2365 49 4423 (Fax)

National Poison Information Service (NPIS)
England, Scotland and Wales: NHS: 111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

Product name: TEGO® Dispers 655
Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567
Environmental Hazards

Chronic hazards to the aquatic environment	Category 3	H412: Harmful to aquatic life with long lasting effects.
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2.2 Label Elements

Hazard Statement(s): H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention: P273: Avoid release to the environment.

Disposal: P501: Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients
Chemical name:

Polyetherphosphate

3.1 Substances

Chemical name: Oxirane, phenyl-, polymer with oxirane, mono(dihydrogen phosphate), decyl ethers

INDEX No.:

CAS-No.: 308336-53-0

EC No.: 620-301-6

REACH Registration No.: -

Chemical name	Concentration	CAS-No.	EC No.	UK-REACH Registration No.	REACH Registration No.	M-Factor:	Notes
Oxirane, phenyl-, polymer with oxirane, mono(dihydrogen phosphate), decyl ethers	50 - <100%	308336-53-0	620-301-6	-	-	No data available.	
phosphoric acid	5 - <10%	7664-38-2	231-633-2		01-211948592-4-24	No data available.	#

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

This substance has workplace exposure limit(s).

This substance is listed as SVHC.

Product name: TEGO® Dispers 655
Classification

Chemical name	Classification	Notes
Oxirane, phenyl-, polymer with oxirane, mono(dihydrogen phosphate), decyl ethers	Classification: Aquatic Chronic: 3: H412; Supplemental label information: None known.	None.
phosphoric acid	Classification: Met. Corr.: 1: H290; Acute Tox.: 4: H302; Skin Corr.: 1B: H314; Eye Dam.: 1: H318; Supplemental label information: None known.	Note B

SECTION 4: First aid measures
4.1 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.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms:	Up to now no symptoms are known.
Hazards:	No data available.

4.3 Indication of immediate medical attention and special treatment needed

Treatment:	Treat symptomatically.
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SECTION 5: Firefighting measures
5.1 Extinguishing media

Suitable extinguishing media:	foam, carbon dioxide, dry powder, water spray.
Unsuitable extinguishing media:	High volume water jet.

5.2 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

5.3 Advice for firefighters

Product name: TEGO® Dispers 655

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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment.
6.1.1 For non-emergency personnel:	No data available.
6.1.2 For emergency responders:	No data available.
6.2 Environmental Precautions:	Do not allow to enter drains or waterways Prevent product from getting into subsoil/soil.
6.3 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.
6.4 Reference to other sections:	For further information on exposure monitoring and disposal see sections 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling	
Technical measures:	No data available.
Local/Total ventilation:	No data available.
Safe handling advice:	Avoid contact with skin and eyes. Do not inhale gases/vapours/aerosols. Provide good ventilation of working area (local exhaust ventilation if necessary). Use respiratory protection during spraying.
Contact avoidance measures:	No data available.
7.2 Conditions for safe storage, including any incompatibilities	
Safe storage conditions:	Keep container tightly closed in a cool, well-ventilated place. Protect from frost. Do not store with acids or alkalies
Safe packaging materials:	No data available.
7.3 Specific end use(s):	No further recommendations.

SECTION 8: Exposure controls/personal protection
8.1 Control Parameters
Occupational Exposure Limits

Chemical name	Type	Form of exposure	Exposure Limit Values	Source
phosphoric acid	TWA		1 mg/m ³	EH40 WEL (12 2011)
	STEL 15 minutes		2 mg/m ³	EH40 WEL (01 2020)

Product name: TEGO® Dispers 655

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

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

DNEL-Values

Remarks: DNEL-Values

Critical component	Type	Route of Exposure	Health Warnings	Remarks
phosphoric acid	Workers	Inhalation	Local, short-term; 2 mg/m ³	Skin irritation
	Workers	Inhalation	Local, long-term; 1 mg/m ³	Skin irritation
	General population	Inhalation	Local, long-term; 0.36 mg/m ³	Skin irritation
	Workers	Inhalation	Local, long-term; 2.92 mg/m ³	Repeated dose toxicity
	General population	Eyes	Local effect;	Medium hazard (no threshold derived)
	General population	Oral	Systemic, long-term; 0.1 mg/kg	Repeated dose toxicity
	General population	Inhalation	Local, long-term; 0.73 mg/m ³	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 10.7 mg/m ³	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 4.57 mg/m ³	Repeated dose toxicity
	Workers	Eyes	Local effect;	Medium hazard (no threshold derived)

PNEC-Values

Remarks: No PNEC values on file.

8.2 Exposure controls

Appropriate Engineering Controls: No data available.

Individual protection measures, such as personal protective equipment

Eye/face protection: Safety goggles

Hand Protection: Material: Nitrile rubber.
Break-through time: 480 min
Glove thickness: 0.35 mm

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: When using do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Remove soiled or soaked clothing immediately.

Environmental Controls: The environmental regulations on the control and monitoring of environmental exposures are to be observed.

SECTION 9: Physical and chemical properties
9.1 Information on basic physical and chemical properties
Appearance

Physical state: liquid

Product name: TEGO® Dispers 655

Form:	Viscous Liquid
Color:	Pale orange
Odor:	specific to the product
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:	164 °C Method: DIN EN 22719
Auto-ignition temperature:	not measured
Decomposition Temperature:	not measured
pH:	1.5 - 2.5 at 23 °C Concentration: 100 g/l Concentration: 10 % in Water
Viscosity	
Dynamic viscosity:	5,000 - 10,000 mPa.s at 22 °C Method: DIN 53015
Kinematic viscosity:	4545 - 9091 mm ² /s at 22 °C , Method: calculated
Solubility(ies)	
Solubility in Water:	Soluble
Solubility (other):	not measured
Partition coefficient (n-octanol/water):	not measured
Vapor pressure:	not measured
Relative density:	not measured
Density:	1.1 g/cm ³ at 23 °C Method: DIN 51757
Relative vapor density:	not measured

9.2 Other information

Explosive properties:	not measured
Oxidizing properties:	not oxidizing
Self-ignition:	not measured
Metal Corrosion:	Not corrosive to metals
Evaporation Rate:	not measured

SECTION 10: Stability and reactivity

10.1 Reactivity:	see section "Possibility of hazardous reactions".
10.2 Chemical Stability:	The product is stable under normal conditions.

Product name: TEGO® Dispers 655

10.3	Possibility of hazardous reactions:	No hazardous reactions with proper storage and handling
10.4	Conditions to avoid:	None with proper storage and handling.
10.5	Incompatible Materials:	acids alkalines
10.6	Hazardous Decomposition Products:	None with proper storage and handling.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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, The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

Components:

Oxirane, phenyl-, polymer with oxirane, mono(dihydrogen phosphate), decyl ethers	LD 50, Rat, > 5,000 mg/kg, OECD 423, (analogy)
phosphoric acid	LD 50, Rat, > 300 mg/kg, OECD 423

Dermal

Product: LD 50, ATEmix, > 5,000 mg/kg

Components:

Oxirane, phenyl-, polymer with oxirane, mono(dihydrogen phosphate), decyl ethers	Not toxic after single exposure, No data available.
phosphoric acid	Not toxic after single exposure, No data due to skin-corrosive action

Inhalation

Product: No data available.
Not classified for acute toxicity based on available data.

Components:

Oxirane, phenyl-, polymer with oxirane, mono(dihydrogen phosphate), decyl ethers	Vapour, Not toxic after single exposure, No data available. Dust and mist, Not toxic after single exposure, No data available.
phosphoric acid	Vapour, Not toxic after single exposure, No data due to skin-corrosive action Dust and mist, Not toxic after single exposure, No data due to skin-corrosive action

Product name: TEGO® Dispers 655

Repeated dose toxicity**Product:** No data available.**Components:**Oxirane, phenyl-, polymer with oxirane, mono(dihydrogen phosphate), decyl ethers phosphoric acid No data available.
No data available.**Skin Corrosion/Irritation****Product:** Not irritating, OECD 404, (Rabbit), Not irritating**Components:**Oxirane, phenyl-, polymer with oxirane, mono(dihydrogen phosphate), decyl ethers phosphoric acid Not irritating, OECD 404, Rabbit
Corrosive., Rabbit, > 3.01 min - < 1 h**Serious Eye Damage/Eye Irritation****Product:** Not irritating, OECD 405, Rabbit, Not irritating**Components:**Oxirane, phenyl-, polymer with oxirane, mono(dihydrogen phosphate), decyl ethers phosphoric acid Not irritating, OECD 405, Rabbit
Risk of serious damage to eyes.**Respiratory or Skin Sensitization****Product:** No data available.**Components:**Oxirane, phenyl-, polymer with oxirane, mono(dihydrogen phosphate), decyl ethers phosphoric acid No data available.
No data available.**Carcinogenicity****Product:** No data available.**Components:**Oxirane, phenyl-, polymer with oxirane, mono(dihydrogen phosphate), decyl ethers phosphoric acid No data available.
No data available.**Germ Cell Mutagenicity**

No data available.

In vitro**Product:** No data available.**Components:**Oxirane, phenyl-, polymer with oxirane, mono(dihydrogen phosphate), decyl ethers phosphoric acid No data available.
No data available.**In vivo****Product:** No data available.**Components:**

Product name: TEGO® Dispers 655

Oxirane, phenyl-, polymer with oxirane, mono(dihydrogen phosphate), decyl ethers phosphoric acid

No data available.

No data available.

Reproductive toxicity

Product: No data available.

Components:

Oxirane, phenyl-, polymer with oxirane, mono(dihydrogen phosphate), decyl ethers phosphoric acid

No data available.

No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Components:

Oxirane, phenyl-, polymer with oxirane, mono(dihydrogen phosphate), decyl ethers phosphoric acid

No data available.

No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:

Oxirane, phenyl-, polymer with oxirane, mono(dihydrogen phosphate), decyl ethers phosphoric acid

No data available.

No data available.

Aspiration Hazard

Product: Not classified

Components:

Oxirane, phenyl-, polymer with oxirane, mono(dihydrogen phosphate), decyl ethers phosphoric acid

Not classified

Not classified

11.2 Information on other hazards

Other information

Product: No data available.

SECTION 12: Ecological information

12.1 Toxicity:

Acute hazards to the aquatic environment:

Fish

Product: LC 50, Danio rerio, 96 h, 14 mg/l OECD 203, The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

Product name: TEGO® Dispers 655

Components:

Oxirane, phenyl-, polymer with oxirane, mono(dihydrogen phosphate), decyl ethers phosphoric acid	No data available.
	LC 50, Gambusia affinis, 96 h, 138 mg/l

Aquatic Invertebrates

Product: EC 50, Daphnia magna, 48 h, 16.6 mg/l OECD 202

Components:

Oxirane, phenyl-, polymer with oxirane, mono(dihydrogen phosphate), decyl ethers phosphoric acid	EC 50, Daphnia magna, 48 h, 16.6 mg/l OECD 202
	EC 50, Daphnia magna, 48 h, > 100 mg/l OECD 202
	NOEC, Daphnia magna, 48 h, 56 mg/l OECD 202

Toxicity to Aquatic Plants

Product: ErC50 (Desmodesmus subspicatus (Scenedesmus subspicatus), 72 h): 142 mg/l (OECD 201) The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

Components:

Oxirane, phenyl-, polymer with oxirane, mono(dihydrogen phosphate), decyl ethers phosphoric acid	No data available.
	EC 50 (Desmodesmus subspicatus (green algae), 72 h): > 100 mg/l (OECD 201)

Toxicity to microorganisms

Product: No data available.

Components:

Oxirane, phenyl-, polymer with oxirane, mono(dihydrogen phosphate), decyl ethers phosphoric acid	No data available.
	EC 50, activated sludge, 3 h, > 1,000 mg/l, OECD 209
	NOEC, activated sludge, 3 h, 1,000 mg/l, OECD 209

Toxicity to soil dwelling organisms

Product: No data available.

Components:

Oxirane, phenyl-, polymer with oxirane, mono(dihydrogen phosphate), decyl ethers phosphoric acid	No data available.
	No data available.

Toxicity to terrestrial organisms

Product: No data available.

Components:

Oxirane, phenyl-, polymer with oxirane, mono(dihydrogen phosphate), decyl ethers phosphoric acid	No data available.
	No data available.

Chronic hazards to the aquatic environment:
Fish

Product name: TEGO® Dispers 655

Product: No data available.

Components:

Oxirane, phenyl-, polymer with oxirane, No data available.

mono(dihydrogen phosphate), decyl ethers phosphoric acid No data available.

Aquatic Invertebrates

Product: No data available.

Components:

Oxirane, phenyl-, polymer with oxirane, No data available.

mono(dihydrogen phosphate), decyl ethers phosphoric acid No data available.

Toxicity to Aquatic Plants

Product: No data available.

Components:

Oxirane, phenyl-, polymer with oxirane, No data available.

mono(dihydrogen phosphate), decyl ethers phosphoric acid NOEC (Desmodesmus subspicatus (green algae), 72 h): 100 mg/l (OECD 201)

Toxicity to microorganisms

Product: No data available.

Components:

Oxirane, phenyl-, polymer with oxirane, No data available.

mono(dihydrogen phosphate), decyl ethers phosphoric acid EC 50, activated sludge, 3 h, > 1,000 mg/l, OECD 209
 NOEC, activated sludge, 3 h, 1,000 mg/l, OECD 209

Toxicity to soil dwelling organisms

Product: No data available.

Components:

Oxirane, phenyl-, polymer with oxirane, No data available.

mono(dihydrogen phosphate), decyl ethers phosphoric acid No data available.

Toxicity to terrestrial organisms

Product: No data available.

Components:

Oxirane, phenyl-, polymer with oxirane, No data available.

mono(dihydrogen phosphate), decyl ethers phosphoric acid No data available.

12.2 Persistence and Degradability

Biodegradation

Product name: TEGO® Dispers 655

Product: The product is not biodegradable. The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

Components:
 Oxirane, phenyl-, polymer with oxirane, mono(dihydrogen phosphate), decyl ethers phosphoric acid
 The product is not biodegradable.
 No data available.

12.3 Bioaccumulative potential
Bioconcentration Factor (BCF)

Product: No data available.

Components:
 Oxirane, phenyl-, polymer with oxirane, mono(dihydrogen phosphate), decyl ethers phosphoric acid
 No data available.
 No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: not measured

Components:
 Oxirane, phenyl-, polymer with oxirane, mono(dihydrogen phosphate), decyl ethers phosphoric acid
 No data available.
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12.4 Mobility in soil:

Product No data available.

Components:
 Oxirane, phenyl-, polymer with oxirane, mono(dihydrogen phosphate), decyl ethers phosphoric acid
 No data available.
 No data available.

12.5 Results of PBT and vPvB assessment:

Product No data available.

Components:
 Oxirane, phenyl-, polymer with oxirane, mono(dihydrogen phosphate), decyl ethers phosphoric acid
 No data available.
 Non-classified vPvB substance,
 Non-classified PBT substance

12.6 Other adverse effects:
Other hazards

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

SECTION 13: Disposal considerations

Product name: TEGO® Dispers 655

13.1 Waste treatment methods

General information:	No data available.
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.

SECTION 14: Transport information

14.1 UN/ID No.

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I: Not applicable

15.2 Chemical safety assessment: No chemical safety assessment was carried out for this product.

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

Product name: TEGO® Dispers 655
SECTION 16: Other information
Abbreviations and acronyms:

EH40 WEL:	UK. EH40 Workplace Exposure Limits (WELs), as amended
EH40 WEL / STEL:	Short Term Exposure Limit (STEL):
EH40 WEL / TWA:	Time Weighted Average (TWA):

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; EIGA - European Industrial Gases Association; 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; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; 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; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Notes:

Note B	Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid...%'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.
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Key literature references and sources for data: No data available.

Training information: Comply with national laws regulating employee instruction.

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

Product name: TEGO® Dispers 655

Disclaimer:

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