

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Date first issue: 07/02/2013 Review date: 21/05/2024 Supersedes version of: 22/02/2023 Version: 6.0

	bstance/mixture and of the company/undertaking
1.1. Product identifier Product form	: Mixture
Product name	: ZI-GEST
Product code	: 470
Type of product	: Detergent
Product group	: Mixture
1.2. Relevant identified uses of the sub	stance or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Industrial use, Professional use
Industrial/Professional use spec	: Industrial For professional use only
Use of the substance/mixture	: Cleaning/washing agents and additives Enzymatic detergent
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the safety	data sheet
Manufacturer	Supplier
Christeyns Professional Hygiene UK Ltd Clover House Macclesfield Road	Christeyns NV Afrikalaan 182 9000 GENT
SK23 7DQ Whaley Bridge, Derbyshire United Kingdom T 01663 733114, F 01663 733115	Belgium T +32 (0)9/ 223 38 71, F +32 (0)9/ 233 03 44 info@christeyns.be, www.christeyns.com

info.cph.uk@christeyns.com, www.christeyns-ph.co.uk

1.4. Emergency	telephone number
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Country/Area	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals

SECTION 2: Hazards identification 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Serious eye damage/eye irritation, Category 1 H318

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



CLP Signal word Contains Hazard statements (CLP) Precautionary statements (CLP) : Danger

- : ALCOHOLS, C9-11, ETHOXYLATED
- : H318 Causes serious eye damage.

P102 - Keep out of reach of children.
P264 - Wash hands thoroughly after handling.
P280 - Wear protective gloves, eye protection.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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	P337+P313 - If eye irritation persists: Get medical advice/attention. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P362 - Take off contaminated clothing and wash before reuse.
EUH-statements	: EUH208 - Contains METHYLCHLOROISOTHIAZOLINONE (AND) METHYLISOTHIAZOLINONE. May produce an allergic reaction.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ALCOHOLS, C9-11, ETHOXYLATED	CAS-no: 68439-46-3	10 – 30	Acute Tox. 4 (Oral), H302 (ATE=2000 mg/kg bodyweight) Eye Dam. 1, H318
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3- one and 2-methyl-2H-isothiazol-3-one (3:1) substance with national workplace exposure limit(s) (CH)	CAS-no: 55965-84-9 EG annex nr: 613-167-00-5 REACH-no: 01-2120764691- 48	< 1	Acute Tox. 2 (Inhalation), H330 Acute Tox. 2 (Dermal), H310 (ATE=78 mg/kg bodyweight) Acute Tox. 3 (Oral), H301 (ATE=64 mg/kg bodyweight) Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) EUH071

Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3- one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS-no: 55965-84-9 EG annex nr: 613-167-00-5 REACH-no: 01-2120764691- 48	(0.0015 ≤ C ≤ 100) Skin Sens. 1A, H317 (0.06 ≤ C < 0.6) Eye Irrit. 2, H319 (0.06 ≤ C < 0.6) Skin Irrit. 2, H315 (0.6 ≤ C ≤ 100) Eye Dam. 1, H318 (0.6 ≤ C ≤ 100) Skin Corr. 1C, H314

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first ald measures	
General advice	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
Inhalation	: Allow affected person to breathe fresh air. Allow the victim to rest.
Skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
Eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
Ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and effects	, both acute and delayed
Acute effects inhalation	: Inhalation may cause irritation, cough, shortness of breath.
Acute effects skin	: Irritation. Red skin.
Acute effects eyes	: Causes serious eye damage. Redness.
Acute effects oral route	: Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.
4.3. Indication of any immediate medical a	ttention and special treatment needed

No additional information available

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SECTION 5: Firefighting measures 5.1. Extinguishing media	• Woter
Suitable extinguishing media	: Water.
5.2. Special hazards arising from the subs Hazardous decomposition products in case of fire	: Toxic fumes may be released. Carbon dioxide. Carbon monoxide.
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measu 6.1. Personal precautions, protective equip	
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions Avoid release to the environment.	
6.3. Methods and material for containment	
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
6.4. Reference to other sections See Section 8. Exposure controls and personal pro	tection.
SECTION 7: Handling and storage 7.1. Precautions for safe handling	
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.
Hygiene measures	: Wash hands, forearms and face thoroughly after handling.
7.2. Conditions for safe storage, including Storage conditions	any incompatibilities : Keep container tightly closed.
Incompatible materials	: Direct sunlight.
Packaging materials	: polyethylene.
7.3. Specific end use(s) No additional information available	
SECTION 8: Exposure controls/persor 8.1. Control parameters	nal protection
8.1.1 National occupational exposure and biolog	gical limit values
8.1.2. Recommended monitoring procedures No additional information available	
8.1.3. Air contaminants formed No additional information available	
8.1.4. DNEL and PNEC	

No additional information available

8.1.5. Control banding

No additional information available **8.2. Exposure controls**

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment:

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Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection: Chemical goggles or safety glasses

8.2.2.2. Skin protection

Hand protection:

Wear protective gloves.

8.2.2.3. Respiratory protection

No additional information available

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and che	
Physical state	: Liquid
Colour	: Colourless.
Physical state/form	: Liquid.
Odour	: odourless.
Odour threshold	: Not available
Melting point/range	: 0 °C
Freezing point	: Not determined as it is not relevant for the characterization of the product
Boiling point/Boiling range	: 100 °C
Flammability	: Non flammable.
Lower explosion limit	: Constituents do not contain chemical groups associated with explosivity
Upper explosion limit	: Constituents do not contain chemical groups associated with explosivity
Flash point	: Not determined as it is not relevant for the characterization of the product
Autoignition temperature	: Determination of the auto-ignition temperature is only relevant for pyrophoric liquids, however the mixture is not a pyrophoric liquid so the test is not required.
Decomposition temperature	: Only applies to self-reactive substances and mixtures, organic peroxides, and other substances and mixtures that may decompose.
рН	: 8.5 – 9
Viscosity, kinematic	: Thin liquid
Viscosity, dynamic	: < 20 cP at 20 °C
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: 1.01 g/cm³
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable
9.2. Other information	
9.2.1. Information with regard to physical hazard	d classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

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SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reactions	
No dangerous reactions known under normal con	iditions of use.
10.4. Conditions to avoid Direct sunlight. Extremely high or low temperature	22
10.5. Incompatible materials	53.
No additional information available	
10.6. Hazardous decomposition products	6
fume. Carbon monoxide. Carbon dioxide.	
SECTION 11: Toxicological informati	
11.1. Information on hazard classes as de Acute toxicity (oral)	in Regulation (EC) No 1272/2008 : Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
,	
reaction mass of 5-chloro-2-methyl-2H-is	sothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)
LD50 oral rat	64 mg/kg
LD50 dermal rat	87.12 mg/kg
LD50 dermal rabbit	78 mg/kg
LC50 Inhalation - Rat	0.33 mg/l/4h
LC50 Inhalation - Rat (Dust/Mist)	0.33 mg/l/4h
ALCOHOLS, C9-11, ETHOXYLATED (684	139-46-3)
LD50 oral rat	> 300 (≤ 2000) mg/kg
Skin corrosion/irritation	: Not classified
	pH: 8.5 – 9
Additional information	: Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Causes serious eye damage.
, ,	pH: 8.5 – 9
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
	: Not classified
STOT-single exposure Additional information	: Based on available data, the classification criteria are not met
STOT-repeated exposure Additional information	: Not classified : Based on available data, the classification criteria are not met
	: Based on available data, the classification criteria are not met : Not classified
Aspiration hazard Additional information	: Not classified : Based on available data, the classification criteria are not met
ZI-GEST	
Viscosity, kinematic	Thin liquid
11.2. Information on other hazards	
I1.2.1. Endocrine disrupting properties No additional information available	
11.2.2. Other information	
Potential adverse human health effects and	: Based on available data, the classification criteria are not met
symptoms	

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SECTION 12: Ecological information	
12.1. Toxicity Hazardous to the aquatic environment, short–term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified
reaction mass of 5-chloro-2-methyl-2H-isot	thiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)
LC50 - Fish [1]	0.22 mg/l (Onchorhyncus mykiss) (OECD 203)
EC50 - Crustacea [1]	0.16 mg/l
EC50 - Other aquatic organisms [1]	0.126 mg/l waterflea
EC50 - Other aquatic organisms [2]	0.052 mg/l (Skeletonema costatum) (DIN EN ISO 10253)
EC50 72h - Algae [1]	0.027 mg/l
ErC50 algae	0.003 mg/l Skeletonema costatum
ErC50 other aquatic plants	0.018 mg/l selenastrum capricornutum
NOEC chronic fish	0.05 mg/l
NOEC chronic crustacea	0.1 mg/l
NOEC chronic algae	0.0012 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
ALCOHOLS, C9-11, ETHOXYLATED (68439	
LC50 - Fish [1]	1 – 10 mg/l
LC50 - Fish [2]	1 – 10 mg/l
12.2. Persistence and degradability ZI-GEST	
	Biodegradeble. The surfactant(a) contained in this propagation complice(comply) with the
Persistence and degradability	Biodegradable. The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
reaction mass of 5-chloro-2-methyl-2H-isot	thiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)
Persistence and degradability	t1/2 anaerobic = 0.2d. t 1/2 aerobic = 0.38 - 1.3d. 2-methyl-2H-isothiazole-3-one: t1/2 aerobic = 0.38 - 1.4d
ALCOHOLS, C9-11, ETHOXYLATED (68439	-46-3)
Persistence and degradability	Rapidly degradable
12.3. Bioaccumulative potential	·
ZI-GEST	
Bioaccumulative potential	No bioaccumulation.
reaction mass of 5-chloro-2-methyl-2H-isot	thiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)
Log Pow	0.4
12.4. Mobility in soil No additional information available	
12.5. Results of PBT and vPvB assessment	
ZI-GEST	
This substance/mixture does not meet the PBT crite	aria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB crit	eria of REACH regulation, annex XIII
12.6. Endocrine disrupting properties No additional information available	
12.7. Other adverse effects Additional information	: Avoid release to the environment.
SECTION 13: Disposal considerations 13.1. Waste treatment methods Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.

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Waste / unused products

HP Code

: Avoid release to the environment.

: HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.

SECTION 14: Transport information

ADR	IMDG	ΙΑΤΑ
14.1. UN number or ID number		
Not regulated for transport		
14.2. UN proper shipping name		
Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)		
Not regulated	Not regulated	Not regulated
14.4. Packing group		
Not regulated	Not regulated	Not regulated
14.5. Environmental hazards		
Not regulated	Not regulated	Not regulated

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

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Detergent Regulation (648/2004)

Labelling of contents		
Component	%	
non-ionic surfactants	15-30%	
enzymes		
METHYLCHLOROISOTHIAZOLINONE (AND) METHYLISOTHIAZOLINONE		

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

: None.

Other information

Full text of H- and EUH-statements:

Tui text of 11- and Eof-statements.			
Acute Tox. 2 (Dermal)	Acute toxicity (dermal), Category 2		
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2		
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4		
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1		
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard, Category 1		
EUH071	Corrosive to the respiratory tract.		
EUH208	Contains METHYLCHLOROISOTHIAZOLINONE (AND) METHYLISOTHIAZOLINONE. May produce an allergic reaction.		
Eye Dam. 1	Serious eye damage/eye irritation, Category 1		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
H301	Toxic if swallowed.		
H302	Harmful if swallowed.		
H310	Fatal in contact with skin.		
H314	Causes severe skin burns and eye damage.		
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
H318	Causes serious eye damage.		
H319	Causes serious eye irritation.		
H330	Fatal if inhaled.		
H400	Very toxic to aquatic life.		
H410	Very toxic to aquatic life with long lasting effects.		
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C		
Skin Irrit. 2	Skin corrosion/irritation, Category 2		
Skin Sens. 1A	Skin sensitisation, category 1A		

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Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:			
Eye Dam. 1	H318	Calculation method	
Safety Data Sheet (SDS), EU			

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.