

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date first issue: 01/08/2008 Review date: 13/07/2020 Supersedes: 22/10/2019 Version: 3.0

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

1.1. Product identifier

Product form Product name Product code Type of product Product group

- : Mixture
- : FORMULA 2000 : 706
- : Detergent
- : Mixture

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

1.2.1. Relevant identified uses

Main use category

Industrial/Professional use spec

: Industrial use, Professional use

- : Industrial For professional use only
- 1.2.2. Uses advised against

No additional information available 1.3. Details of the supplier of the safety data sheet

1.3. Details of the supplier of Ôær\\$\a@\âA?]]|ā• Ó¦æ_a@\âA?]`•^ T^æi[,ÂUd^^c Ù,æ)•^æ ŬOEFÂÜZ ∄ { O &\^æ)Ë[`\&^Ê{[È\

1.4. Emergency telephone number

Country	Official advisory body	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	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	

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

Classification according to Regulation (EC) No. 1272/2008 [CLP]		
Skin Irrit. 2	H315	
Eye Irrit. 2	H319	
Aquatic Chronic 3	H412	

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Hazard pictograms (CLP)

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

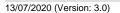
CLP Signal word Hazard statements (CLP) GHS07

: Warning

: H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H412 - Harmful to aquatic life with long lasting effects.



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Precautionary statements (CLP)	 P102 - Keep out of reach of children. P264 - Wash hands thoroughly after handling. P280 - Wear eye protection, protective gloves. P273 - Avoid release to the environment. P302+P352 - IF ON SKIN: Wash with plenty of water. P332+P313 - If skin irritation occurs: Get medical advice/attention. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention.
EUH-statements	: EUH208 - Contains Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1). 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

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]
Naphtha (petroleum), hydrotreated heavy HYDROCARBONS, C9-C11, N- ALKANES,ISOALKANES CYCLICS, <2%AROMATICS	(CAS-no) 64742-48-9 (Einecs nr) 919-857-5 (REACH-no) 01-2119463258-33	10 – 30	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304
Odourless Kerosine	(CAS-no) 64742-47-8 (Einecs nr) 265-149-8 (EG annex nr) 649-422-00-2	5 – 10	Asp. Tox. 1, H304
Bis (2-hydroxyethyl) oleyl amine	(CAS-no) 25307-17-9 (Einecs nr) 246-807-3 (REACH-no) 01-2119510876-35	0.1 – 1	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
Dicocodimethylammonium chloride	(CAS-no) 61789-77-3 (Einecs nr) 263-087-6 (REACH-no) 01-2119486994-16	0.1 – 1	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	(CAS-no) 55965-84-9 (Einecs nr) 611-341-5 (EG annex nr) 613-167-00-5 (REACH-no) 01-2120764691-48	< 0.1	Acute Tox. 2 (Inhalation), H330 Acute Tox. 2 (Dermal), H310 Acute Tox. 3 (Oral), H301 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)

Specific concentration limits:			
Name	Product identifier	Specific concentration limits	
Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	(CAS-no) 55965-84-9 (Einecs nr) 611-341-5 (EG annex nr) 613-167-00-5 (REACH-no) 01-2120764691-48	($0.0015 \le C \le 100$) Skin Sens. 1A, H317 ($0.06 \le C < 0.6$) Eye Irrit. 2, H319 ($0.06 \le C < 0.6$) Skin Irrit. 2, H315 ($0.6 \le C \le 100$) Eye Dam. 1, H318 ($0.6 \le C \le 100$) Skin Corr. 1C, H314	

Full text of H-statements: see section 16

SECTION 4: First aid measures 4.1. Description of first aid 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 Skin contact : Allow affected person to breathe fresh air. Allow the victim to rest.

: Wash with plenty of water/.... Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with	its amendment Regulation (EU) 2015/830
Eye contact	: 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.
Ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and effects, Acute effects inhalation	both acute and delayed : Inhalation may cause irritation, cough, shortness of breath.
Acute effects skin	: Slight irritation.
Acute effects eyes	: May cause eye irritation. Redness.
4.3. Indication of any immediate medical att No additional information available	ention and special treatment needed
SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media	: Water.
5.2. Special hazards arising from the substa	
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 measur	
6.1. Personal precautions, protective equip	ment and emergency procedures
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	
	thorities if liquid enters sewers or public waters. Avoid release to the environment.
6.3. Methods and material for containment a Methods for cleaning up	 and 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 Heading 8. Exposure controls and personal prot	ection.
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 a Storage conditions	iny incompatibilities : Keep container tightly closed.
Packaging materials	: polyethylene. stainless steel.
7.3. Specific end use(s) No additional information available	
SECTION 8: Exposure controls/persona 8.1. Control parameters No additional information available	al protection
8.2. Exposure controls	
Appropriate engineering controls:	
Ensure that there is a suitable ventilation system.	
Personal protective equipment:	
Avoid all unnecessary exposure.	
Respiratory protection:	
Not required	

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Other information:

Do not eat, drink or smoke during use.

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

Physical state	: Liquid
Physical state/form	: Liquid.
Colour	: Off-white.
Odour	: Sweet.
Odour threshold	: No data available
рН	: 8
Relative evaporation rate (butylacetate=1)	: No data available
Melting point/range	: 0 °C
Freezing point	: No data available
Boiling point/Boiling range	: 100 °C
Flash point	: 70 °C
Autoignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 0.968
Solubility	: Not miscible.
Log Pow	: No data available
Viscosity, kinematic	: 100000 mm²/s
Viscosity, dynamic	: 90000 – 120000 cP at 20 °C
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	
VOC content	: 230 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity
Stable under normal conditions.
10.2. Chemical stability Stable under normal conditions.
10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid
No additional information available
10.5. Incompatible materials
No additional information available
10.6. Hazardous decomposition products
fume. Carbon monoxide. Carbon dioxide.
SECTION 11: Toxicological information

SECTION 11: Toxicological information 11.1. Information on toxicological effects

11.1. Information on toxicological effects			
Acute toxicity (oral)	: Not classified		
Acute toxicity (dermal)	: Not classified		
Acute toxicity (inhalation)	: Not classified		

Naphtha (petroleum), hydrotreated heavy HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES CYCLICS,

<2%AROMATICS (64742-48-9)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 3000 mg/kg

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (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 (mg/l)	0.33 mg/l/4h	
LC50 inhalation rat (Dust/Mist - mg/l/4h)	0.33 mg/l/4h	
ATE CLP (oral)	64 mg/kg bodyweight	
ATE CLP (dermal)	78 mg/kg bodyweight	
ATE CLP (gases)	700 ppmv/4h	
ATE CLP (vapours)	0.33 mg/l/4h	
ATE CLP (dust,mist)	0.33 mg/l/4h	

Bis (2-hydroxyethyl) oleyl amine (25307-17-9)	
LD50 oral rat	> 300 – 2000 ml/kg
ATE CLP (oral)	500 mg/kg bodyweight

Dicocodimethylammonium chloride (61789-77-3)	
ATE CLP (oral)	500 mg/kg bodyweight

Odourless Kerosine (64742-47-8)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5.28 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
	pH: 8
Serious eye damage/irritation	: Causes serious eye irritation.
	pH: 8
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
STOT-single exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met
FORMULA 2000	
Viscosity, kinematic	100000 mm²/s

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity Ecology - water	: Harmful to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Harmful to aquatic life with long lasting effects.

Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) (55965-84-9)

LC50 fish 1	0.19 mg/l Rainbow trout
LC50 fish 2	zonnebaars
EC50 Daphnia 1	0.16 mg/l
EC50 other aquatic organisms 1	0.126 mg/l waterflea
EC50 other aquatic organisms 2	0.003 mg/l
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	0.0014 mg/l

Bis (2-hydroxyethyl) oleyl amine (25307-17-9)	
LC50 fish 1	> 0.1 – 1 mg/l
EC50 Daphnia 1	> 0.01 – 0.1 mg/l
EC50 72h algae (1)	> 0.01 – 0.1 mg/l

Odourless Kerosine (64742-47-8)		
LC50 fish 1	> 100 mg/l	
ErC50 (algae)	> 100 mg/l	
NOEC (acute)	0.1 – 1 mg/l	
NOEC (chronic)	1 – 10 mg/l	
12.2. Persistence and degradability		
FORMULA 2000		
Persistence and degradability	Not applicable.	

Naphtha (petroleum), hydrotreated heavy HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES CYCLICS, <2%AROMATICS (64742-48-9)

Persistence and degradability

Not established.

Bis (2-hydroxyethyl) oleyl amine (25307-17-9)		
Persistence and degradability	May cause long-term adverse effects in the environment.	
Dicocodimethylammonium chloride (61789-77	7-3)	

Persistence and degradability

May cause long-term adverse effects in the environment.

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

12.3. Bioaccumulative potential			
FORMULA 2000			
Bioaccumulative potential	No bioaccumulation.		
Naphtha (petroleum), hydrotreated heavy HYDROCARBONS, C9-C11, N-ALKANES,ISOALKANES CYCLICS, <2%AROMATICS (64742-48-9)			
Bioaccumulative potential	Not established.		
Mixture of: 5-chloro-2-methyl-4-isothiazo 6] (3:1) (55965-84-9)	blin-3-one [EC no. 247-500-7] and 2-meth	yl-2H -isothiazol-3-one [EC no. 220-239-	
Log Pow	0.4		
Bis (2-hydroxyethyl) oleyl amine (25307-	-		
Log Pow	3.4		
Bioaccumulative potential	Bioaccumulation unlikely. Not established	J	
Dicocodimethylammonium chloride (617	/89-77-3)		
Bioaccumulative potential	Not established.		
Odourless Kerosine (64742-47-8)			
Log Pow	6 - 8.2		
12.4. Mobility in soil No additional information available			
12.5. Results of PBT and vPvB assessme FORMULA 2000	ent		
This substance/mixture does not meet the PBT c			
This substance/mixture does not meet the vPvB of	.		
This substance/mixture does not meet the vF vB t			
Component			
Bis (2-hydroxyethyl) oleyl amine (25307-17-9)	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		
12.6. Other adverse effects Additional information	: Avoid release to the environment.	: Avoid release to the environment.	
SECTION 13: Disposal consideration 13.1. Waste treatment methods	ns		
Product/Packaging disposal recommendations	contents/container to hazardous or speci	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional national and/or international regulation	
Waste / unused products	: Avoid release to the environment.	regional, national and/or international regulation. : Avoid release to the environment.	
SECTION 14: Transport information			
ADR	IMDG	ΙΑΤΑ	
14.1. UN number			
Not regulated	Not regulated	Not regulated	
14.2. UN proper shipping name	·		
Not regulated	Not regulated	Not regulated	
14.3. Transport hazard class(es)	·		
Not regulated	Not regulated	Not regulated	
· I			

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

14.4. Packing group		
Not regulated	Not regulated	Not regulated
14.5. Environmental hazards		
Not regulated	Not regulated	Not regulated
No supplementary information available		·
14.6. Special precautions for user		
Overland transport		
Not regulated		
Transport by sea		
Not regulated		
Air transport		
Not regulated		
14.7. Transport in bulk according to Anne Not applicable	ex II of Marpol and the IBC Code	

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

VOC content	: 230 g/l	

Allergenic fragrances > 0,01%:

LINALOOL

Detergent Regulation (648/2004/EC): Labelling of contents:

Component	%
METHYLCHLOROISOTHIAZOLINONE (AND) METHYLISOTHIAZOLINONE	
perfumes	
LINALOOL	

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.
Other information	: None.

Full text of H- and EUH-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	

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1		
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2		
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3		
Asp. Tox. 1	Aspiration hazard, Category 1		
Eye Dam. 1	Serious eye damage/eye irritation, Category 1		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
Flam. Liq. 3	Flammable liquids, Category 3		
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B		
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		
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis		
H226	Flammable liquid and vapour.		
H301	Toxic if swallowed.		
H302	Harmful if swallowed.		
H304	May be fatal if swallowed and enters airways.		
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.		
H336	May cause drowsiness or dizziness.		
H400	Very toxic to aquatic life.		
H410	Very toxic to aquatic life with long lasting effects.		
H411	Toxic to aquatic life with long lasting effects.		
H412	Harmful to aquatic life with long lasting effects.		
EUH208	Contains Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H - isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.		

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Skin Irrit. 2	H315	Expert judgment
Eye Irrit. 2	H319	Expert judgment
Aquatic Chronic 3	H412	Calculation method

SDS EU (REACH Annex II)

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.