Superklene 150

Safety Data Sheet

according to the United Nations GHS (Rev. 10, 2023)
Issue date: 10/20/2024 Revision date: 10/19/2027 Version: 1.0

BCI
الصناعات الكيميائية الأساسية
BASIC CHEMICAL INDUSTRIES

SECTION 1: Identification

1.1. GHS Product identifier

Product form : Mixture
Product name : Superklene 150

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Enzymatic Heavy Duty Detergent

1.4. Supplier's details

Supplier
Chemical Marketing and Distribution Co. Ltd.
Dammam 31431,
P.O. Box 1053
Saudi Arabia
T +966138217777 - F +966138472648
sales@bci.com.sa

1.5. Emergency phone number

Emergency number : +966138217777

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Corrosive to metals, Category 1	H290
Acute toxicity (oral), Category 4	H302
Skin corrosion/irritation, Category 1	H314
Reproductive toxicity, Category 1B	H360

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects : May be corrosive to metals,May damage fertility or the unborn child,Harmful if swallowed,Causes severe skin burns and eye damage.

2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

Hazard pictograms (GHS UN) :

Signal word (GHS UN) : Danger

Hazardous ingredients : Sodium metasilicate pentahydrate; Sodium dodecylbenzenesulfonate; Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched; Perboric acid (HBO(O2)), sodium salt, monohydrate

Hazard statements (GHS UN) : H290 - May be corrosive to metals
H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H360 - May damage the unborn child. Suspected of damaging fertility.

Precautionary statements (GHS UN) : P203 - Obtain, read and follow all safety instructions before use.
P234 - Keep only in original packaging.
P260 - Do not breathe dusts or mists.
P264 - Wash hands hands, forearms and face thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective clothing, eye protection, face protection, protective gloves.
P301+P317 - IF SWALLOWED: Get medical help.
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302+P361+P354 - IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P354+P338 - IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P316 - Get emergency medical help immediately.
P318 - IF exposed or concerned, get medical advice.
P321 - Specific treatment (see specific cleansing agent(s), supplemental first aid instruction on this label).
P330 - Rinse mouth.
P363 - Wash contaminated clothing before reuse.
P390 - Absorb spillage to prevent material damage.
P405 - Store locked up.
P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS
sodium carbonate	CAS-No.: 497-19-8	33.4	Acute Tox. 5 (Oral), H303 Eye Irrit. 2, H319
Pentasodium triphosphate	CAS-No.: 7758-29-4	17.3	Acute Tox. 5 (Oral), H303 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Sodium metasilicate pentahydrate	CAS-No.: 10213-79-3	9.6	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 STOT SE 3, H335
Perboric acid (HBO(O2)), sodium salt, monohydrate	CAS-No.: 10332-33-9	9.2	Ox. Sol. 3, H272 Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Repr. 1B, H360 STOT SE 3, H335
Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched	CAS-No.: 127087-87-0	5	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
Sodium dodecylbenzenesulfonate	CAS-No.: 25155-30-0	4.8	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318
Sodium carboxymethyl cellulose	CAS-No.: 9004-32-4	1.5	Aquatic Acute 3, H402 Aquatic Chronic 3, H412

Full text of H-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures general : Call a physician immediately. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Obtain medical attention if breathing difficulty persists.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately. Seek medical attention if ill effect or irritation develops.

First-aid measures after eye contact : Rinse immediately with plenty of water. Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. Seek medical attention if ill effect or irritation develops.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Rinse mouth. Do not induce vomiting. Call a physician immediately.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after skin contact : Burns.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

Chronic symptoms : May damage fertility or the unborn child.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released. Thermal decomposition can lead to the release of irritating gases and vapours.

5.3. Special protective actions for fire-fighters

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.

Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate unnecessary personnel.

Personal Precautions, Protective Equipment and Emergency Procedures : Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Prevention Measures for Secondary Accidents : Avoid release to the environment.

6.1.1. For non-emergency personnel

Protective equipment : Wear personal protective equipment. Wear suitable protective clothing. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures	:	Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment	:	Do not attempt to take action without suitable protective equipment. Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and materials for containment and cleaning up

For containment	:	Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). Collect spillage.
Methods for cleaning up	:	Mechanically recover the product. On land, sweep or shovel into suitable containers. Minimise generation of dust. Store away from other materials. Notify authorities if product enters sewers or public waters.
Other information	:	Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	:	Ensure good ventilation of the work station. Provide good ventilation in process area to prevent formation of vapour. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.
Hygiene measures	:	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	:	Keep only in the original container in a cool well ventilated place. Keep container closed when not in use. Store in corrosive resistant container with a resistant inner liner. Keep only in original container. Store locked up. Store in a well-ventilated place. Keep cool.
Incompatible materials	:	Metals.
Packaging materials	:	Polyethylene bags.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls	:	Ensure good ventilation of the work station.
Environmental exposure controls	:	Avoid release to the environment.
Other information	:	Do not eat, drink or smoke during use.

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

Personal protective equipment:
Wear protective gloves. Wear protective clothing. Wear foot protection. Wear a mask.

Hand protection	:	Impermeable protective gloves. protective gloves
Eye protection	:	Chemical goggles or safety glasses. Safety glasses
Skin and body protection	:	Wear suitable protective clothing

Respiratory protection	:	In case of insufficient ventilation, wear suitable respiratory equipment. [In case of inadequate ventilation] wear respiratory protection. Wear suitable respiratory equipment in case of insufficient ventilation

Personal protective equipment symbol(s)

8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	:	Solid
Colour	:	White to off-white powder.
Odour	:	Nondescript.
Odour threshold	:	Not available
Melting point	:	> 200 °C
Freezing point	:	Not applicable
Boiling point	:	Not available
Flammability	:	Non flammable.
Lower explosion limit	:	Not applicable
Upper explosion limit	:	Not applicable
Flash point	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	> 200 °C
pH	:	10.5 – 12 (0.5% solution)
pH solution	:	Not available
Viscosity, kinematic (calculated value) (40 °C)	:	Not applicable
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Vapour pressure	:	Not available
Vapour pressure at 50°C	:	Not available
Density	:	0.8 – 1 kg/l
Relative density	:	Not available
Relative vapour density at 20°C	:	Not applicable
Solubility	:	Soluble in water.
Particle size	:	Not available

9.2. Data relevant with regard to physical hazard classes (supplemental)

Explosive limits	:	Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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

Avoid exposure to acids or extreme heat.

10.5. Incompatible materials

Reacts vigorously with acids, releasing carbon dioxide.

10.6. Hazardous decomposition products

May produce acrid gases, including oxides of sulfur, carbon monoxide, and carbon dioxide if involved in a fire.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

Superklene 150	
ATE UN (oral)	1678.391 mg/kg bodyweight
Unknown acute toxicity (GHS UN)Unknown acute toxicity (GHS UN)	100% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 61.8% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

sodium carbonate (497-19-8)	
LD50 oral rat	2800 mg/kg bodyweight Animal: rat
LD50 oral	4090 mg/kg bodyweight
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: other:
LD50 dermal	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat	2300 mg/m³ (Exposure time: 2 h Source: ECHA_API)
LC50 Inhalation - Rat (Dust/Mist)	2300 mg/l

Sodium metasilicate pentahydrate (10213-79-3)	
LD50 oral rat	847 mg/kg (Source: NLM_CIP)
LD50 oral	1200 mg/kg

Sodium carboxymethyl cellulose (9004-32-4)	
LD50 oral rat	27000 mg/kg (Source: NLM_CIP)
LD50 dermal rabbit	> 2000 mg/kg Source: Corporate Solution From Thomson Micromedex
LC50 Inhalation - Rat	> 5800 mg/m³ (Exposure time: 4 h Source: NLM_CIP)

Pentasodium triphosphate (7758-29-4)	
LD50 oral rat	3120 mg/kg (Source: NLM_CIP)
LD50 dermal rabbit	> 4640 mg/kg (Source: ECHA_API)
LC50 Inhalation - Rat	> 0.39 mg/l/4h

Sodium dodecylbenzenesulfonate (25155-30-0)	
LD50 oral rat	500 mg/kg (Source: JAPAN_GHS)
LC50 Inhalation - Rat	310 mg/m³ (Exposure time: 4 h Source: ECHA_API)

Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched (127087-87-0)	
LD50 oral rat	1310 mg/kg (Source: NZ_CCID)
LD50 oral	657.2 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: other:, 95% CL: 265 - 1664,2

Perboric acid (HBO(O2)), sodium salt, monohydrate (10332-33-9)	
LD50 oral rat	770 – 2100 mg/kg (Source: NZ_CCID)
LD50 dermal rabbit	> 2000 mg/kg (Source: NZ_CCID)

Skin corrosion/irritation : Causes severe skin burns.
pH: 10.5 – 12 (0.5% solution)

Serious eye damage/irritation : Assumed to cause serious eye damage
pH: 10.5 – 12 (0.5% solution)

Respiratory or skin sensitization : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity : May damage the unborn child. Suspected of damaging fertility.

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

Sodium metasilicate pentahydrate (10213-79-3)	
STOT-single exposure	May cause respiratory irritation.

Perboric acid (HBO(O2)), sodium salt, monohydrate (10332-33-9)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

Superklene 150	
Viscosity, kinematic	Not applicable

Other information : Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short–term (acute) : Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long–term (chronic) : Not classified (Based on available data, the classification criteria are not met)

sodium carbonate (497-19-8)	
LC50 - Fish [1]	300 mg/l Test organisms (species): Lepomis macrochirus
LC50 - Fish [2]	310 – 1220 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
EC50 - Crustacea [1]	200 – 227 mg/l Test organisms (species): Ceriodaphnia sp.
EC50 - Crustacea [2]	200 – 227 mg/l Test organisms (species): Ceriodaphnia sp.
EC50 - Other aquatic organisms [1]	265 mg/l waterflea
EC50 96h - Algae [1]	242 mg/l Source: ECOTOX

Sodium metasilicate pentahydrate (10213-79-3)	
LC50 - Fish [1]	6.7 mg/l Source: SIDS
EC50 - Crustacea [1]	5.8 mg/l Source: SIDS

Sodium carboxymethyl cellulose (9004-32-4)	
LC50 - Fish [1]	> 20000 mg/l Source: The ECOTOXicology database
EC50 - Crustacea [1]	87.26 mg/l Source: The ECOTOXicology database

Pentasodium triphosphate (7758-29-4)	
LC50 - Fish [1]	590 mg/l Source: ECOTOX

Pentasodium triphosphate (7758-29-4)	
EC50 - Crustacea [1]	276.61 mg/l Source: ECOTOX

Sodium dodecylbenzenesulfonate (25155-30-0)	
LC50 - Fish [1]	10.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])

Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched (127087-87-0)	
LC50 - Fish [1]	84.7 mg/l Test organisms (species): Lepomis macrochirus
EC50 - Crustacea [1]	14 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	19.48545 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h - Algae [1]	12 mg/l Test organisms (species): other:

12.2. Persistence and degradability

Superklene 150	
Persistence and degradability	Rapidly degradable

sodium carbonate (497-19-8)	
Persistence and degradability	Not rapidly degradable

Sodium metasilicate pentahydrate (10213-79-3)	
Persistence and degradability	Not rapidly degradable

Sodium carboxymethyl cellulose (9004-32-4)	
Persistence and degradability	Rapidly degradable

Pentasodium triphosphate (7758-29-4)	
Persistence and degradability	Not rapidly degradable

Sodium dodecylbenzenesulfonate (25155-30-0)	
Persistence and degradability	Rapidly degradable

Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched (127087-87-0)	
Persistence and degradability	Rapidly degradable

Perboric acid (HBO(O2)), sodium salt, monohydrate (10332-33-9)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

Superklene 150	
Bioaccumulative potential	No additional information available

sodium carbonate (497-19-8)	
BCF - Fish [1]	(no bioaccumulation)
Partition coefficient n-octanol/water (Log Pow)	-6.19

Pentasodium triphosphate (7758-29-4)	
Partition coefficient n-octanol/water (Log Pow)	-2.71 Source: Ecological Structure Activity Relationships

Sodium dodecylbenzenesulfonate (25155-30-0)	
BCF - Fish [1]	(130 L/kg)
Bioconcentration factor (BCF REACH)	220
Partition coefficient n-octanol/water (Log Pow)	1.96 (at 25 °C (at pH 7)

Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched (127087-87-0)	
Partition coefficient n-octanol/water (Log Pow)	5.669 (at 25 °C (at pH 7.5)

12.4. Mobility in soil

Superklene 150	
Mobility in soil	No additional information available

12.5. Other adverse effects

Ozone : Not classified (Based on available data, the classification criteria are not met)
Other adverse effects : No additional information available
Effect on the ozone layer : No additional information available.
Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations : Dispose of in a safe manner in accordance with local/national regulations.
Ecological waste information : Avoid release to the environment.

SECTION 14: Transport information

In accordance with UN RTDG / IMDG / IATA /

UN RTDG	IMDG	IATA
14.1. UN 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
No supplementary information available		

14.6. Special precautions for user

UN RTDG
Not regulated

IMDG
Not regulated

IATA
Not regulated

14.7. Transport in bulk according to IMO instruments

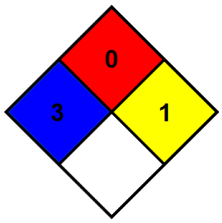
Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

No additional information available

SECTION 16: Other information



NFPA health hazard : 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity : 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.

NFPA specific hazard : None

Hazard Rating

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

Issue date : 10/20/2024

Revision date : 10/19/2027

Other information : None.

Full text of H-statements:	
Acute Tox. 5 (Oral)	Acute toxicity (oral), Category 5
Aquatic Acute 3	Hazardous to the aquatic environment – Acute Hazard, Category 3
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Ox. Sol. 3	Oxidising Solids, Category 3
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H272	May intensify fire; oxidiser
H290	May be corrosive to metals
H302	Harmful if swallowed
H303	May be harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation

Full text of H-statements:	
H360	May damage fertility or the unborn child
H402	Harmful to aquatic life
H412	Harmful to aquatic life with long lasting effects

Safety Data Sheet (SDS), UN

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.