KORUMA TEMİZLİK A.Ş.

SAFETY DATA SHEET

Hypo Foam Bleach White Soap Based

According to Regulation (EC) No 1907/2006 (REACH), (EC) No 1272/2008 (CLP)

Revision Date: - Revision:
Issue Date: 11.10.2024 Form No:

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name Hypo Foam Bleach White Soap Based
Product identifier Bleach

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

Identified uses It is used for cleaning and hygiene purposes.

1.3. Details of the supplier of the safety data sheet

Company KORUMA TEMİZLİK A.Ş.
Deniz Mah. Petrol Ofisi Cad. No:43 41100 Derince-İZMİT- TURKEY
Tel: (0.262) 239 22 70 Fax: (0.262) 32112 98 E-mail: temizlik@koruma.com

Contact Person Chemical Engineer Nazlı Kılıç (nazli@nameconsulting.com.tr)

1.4. Emergency telephone number

Contact the national poison counseling center.

SECTION 2: HAZARDS IDENTIFICATION

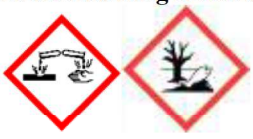
2.1. Classification of the substance or mixture

2.1.1 Hazard Classification (EC) No 1272/2008
This product is not classified as hazardous according to regulation (EC) 1272/2008[CLP/GHS].

Physical and chemical hazards	Not classified.
Human health	Skin Corrosive 1B- H314 Eye Damage 1- H318
Environment	Aquatic Acute 1 – H400 Aquatic Chronic 3 – H412

2.2. Label elements

2.2.1. Labeling According to Regulation (EC) No 1272/2008 [CLP/GHS]



GHS05 GHS09
Signal Word: Danger

Contains: Sodium Hypochlorite, Alcohols, C12-14 ethoxylated, sulphates, sodium salts, Sulfuric acid, mono-C12-16-alkyl esters, sodium salts, Amines, coco alkyldimethyl, N-oxides, Sodium octyl sulphate, Sodium Hydroxide.
Hazard Statements:
H314 Causes severe skin burns and eye damage.
H400 It is very toxic in the aquatic environment.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements:
P101 If medical advice is needed, keep the container or label.
P102 Keep out of reach of children.
P273 Avoid release to the environment.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. If you have contact lenses, remove them if easy. Continue rinsing.
P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P501 Dispose of contents/container according to local regulations.

2.3 Other hazards

This product does not contain any PBT or vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Name	EC No.	CAS No.	Concentration %	Classification according to Regulation (EC) No 1278/2008 (CLP)
Aqua	231-791-2	7732-18-5	≤ 89.99	Not classified.
Sodium Hypochlorite	231-668-3	7681-52-9	≤ 5	Skin Corrosive 1B - H314 Eye Damage 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411 Metal Corrosive 1- H290
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	500-234-8	68891-38-3	≤ 5	Skin Corrosive 1A - H314 Eye Damage 1 - H318 Aquatic Acute 2 – H401 Aquatic Chronic 3 – H412
Sulfuric acid, mono-C12-16-alkyl esters, sodium salts	277-362-3	73296-89-6		
Amines, coco alkyldimethyl, N-oxides	263-016-9	61788-90-7		
Sodium octyl sulphate	205-535-5	142-31-4		
Sodium Hydroxide	215-185-5	1310-73-2		
Terpineol	-	8000-41-7	≤ 0,001	Skin Irritation 2 – H315 Eye Irritation 2 –H319
Benzene, 1,1'-Oxybis-	202-981-2	101-84-8	≤ 0,00075	Eye Irritation 2 – H319 Aquatic Acute 1 – H400 Aquatic Chronic 3 – H412
7-Octen-2-Ol, 2,6-Dimethyl-	242-362-4	18479-58-8	≤ 0,0005	STOT SE 3- H336 Skin Irritation 2 – H315 Eye Irritation 2 –H319
2-Oxabicyclo[2.2.2]Octane, 1,3,3-Trimethyl-	207-431-5	470-82-6	≤ 0,0005	Flammable Liquid 3 - H226 Skin Sensitive 1B - H317 Eye Irritation 2 –H319
D-Limonene	227-813-5	5989-27-5	≤ 0,00025	Flammable Liquid 3 - H226 Skin Sensitive 1B - H317 Skin Irritation 2 – H315 Aquatic Acute 1 – H400 Aquatic Chronic 3 – H412 Aspiration Toxicity 1- H304
Cyclohexanol, 4-(1,1-Dimethylethyl)-, Acetate	250-954-9	32210-23-4	≤ 0,00025	Skin Sensitive 1B - H317
Naphthalene, 2-Methoxy-	202-213-6	93-04-9	≤ 0,00025	Aquatic Chronic 2 H411
2,6-Octadien-1-Ol, 3,7-Dimethyl-, (E)-	203-377-1	106-24-1	≤ 0,00025	Eye Damage 1 - H318 Skin Sensitive 1B - H317 Skin Irritation 2 – H315

1-Butanone, 3-(Dodecylthio)-1-[(1r,2s)-2,6,6-Trimethyl-3-Cyclohexen-1-Yl]- , Rel-	456-350-3	878665-13-5	≤ 0,00025	Skin Sensitive 1B - H317
Citronellol	203-375-0	586-62-9	≤ 0,0001	Aspiration Toxicity 1- H304 Skin Sensitive 1B - H317 Aquatic Acute 1 – H400 Aquatic Chronic 1 – H410
Citronellal	203-376-6	106-23-0	≤ 0,0001	Skin Irritation 2 – H315 Eye Irritation 2 –H319 Skin Sensitive 1B - H317
Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)-	-	54464-57-2	≤ 0,0001	Skin Sensitive 1B - H317 Skin Irritation 2 – H315 Aquatic Chronic 1 – H410
Hexyl Salicylate	228-408-6	6259-76-3	≤ 0,0001	Skin Sensitive 1B - H317 Aquatic Acute 1 – H400 Aquatic Chronic 1 – H410
1,6-Octadiene, 3,7-Dimethyl-	219-433-3	2436-90-0	≤ 0,0001	Flammable Liquid 3 - H226 Skin Sensitive 1B - H317 Skin Irritation 2 – H315 Aquatic Acute 1 – H400 Aquatic Chronic 1 – H410 Aspiration Toxicity 1- H304
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-Hexamethylindeno[5,6-C]Pyran	214-946-9	1222-05-5	≤ 0,0001	Aquatic Acute 1 – H400 Aquatic Chronic 1 – H410
(2e)-2-(Phenylmethylidene)Octanal	-	165184-98-5	≤ 0,00005	Skin Sensitive 1B - H317 Aquatic Acute 1 – H400 Aquatic Chronic 2 – H411
Citral	226-394-6	5392-40-5	≤ 0,00005	Skin Irritation 2 – H315 Eye Irritation 2 –H319 Skin Sensitive 1B - H317
1,4-Cyclohexadiene, 1-Methyl-4-(1-Methylethyl)-	202-794-6	99-85-4	≤ 0,00005	Reproductive System Toxicity 2 - H361 Aspiration Toxicity 1- H304 Flammable Liquid 3 - H226 Aquatic Chronic 2 – H411
2-Buten-1-One, 1-[(1r,2s)-2,6,6-Trimethyl-3-Cyclohexen-1-Yl]-, (2e)-Rel-	275-156-8	71048-82-3	≤ 0,00005	Skin Sensitive 1B - H317 Acute Toxicity 4 – H302 Skin Irritation 2 – H315 Aquatic Acute 1 – H400 Aquatic Chronic 1 – H410
1,3-Cyclohexadiene, 1-Methyl-4-(1-Methylethyl)-	202-795-1	99-86-5	≤ 0,00005	Skin Sens. 1B - H317 Acute Toxicity 4 – H302 Aspiration Toxicity 1- H304 Flammable Liquid 3- H226 Eye Irritation 2 –H319 Aquatic Chronic 2 – H411
Benzene, 1-Methyl-4-(1-Methylethyl)-	202-796-7	99-87-6	≤ 0,00005	Reproductive System Toxicity 2 - H361 Aspiration Toxicity 1- H304 Acute Toxicity 3 – H331 Flammable Liquid 3- H226 Aquatic Chronic 2 – H411
Linalool	201-134-4	78-70-6	≤ 0,00005	Skin Irritation 2 – H315 Eye Irritation 2 –H319 Skin Sensitive 1B - H317

Alpha-Pinene	232-077-3	7785-26-4	≤ 0,00005	Skin Sensitive 1B - H317 Acute Toxicity 4 – H302 Aspiration Toxicity 1- H304 Skin Irritation 2 – H315 Aquatic Acute 1 – H400 Aquatic Chronic 1 – H410 Flammable Liquid 3- H226
Musk Ketone	201-328-9	81-14-1	≤ 0,00005	Carcinogenic 2- H351 Aquatic Acute 1 – H400 Aquatic Chronic 1 – H410
Eugenol	202-589-1	97-53-0	≤ 0,00005	Eye Irritation 2 –H319 Skin Sensitive 1B - H317
Bicyclo[2.2.1]Heptane, 2,2-Dimethyl-3-Methylene-	201-234-8	79-92-5	≤ 0,00005	Aquatic Acute 1 – H400 Aquatic Chronic 1 – H410 Skin Sensitive 1B - H317 Flammable Solid 2 - H228

The Full Text for all Hazard Statements are Displayed in Section 16.
The highest concentration values were used for calculations.

Composition Comments

- The data shown are in accordance with the latest EC Directives.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation : IF INHALED: Remove victim to fresh air and keep in a position comfortable for breathing.

Ingestion : IF SWALLOWED: Rinse mouth. DO NOT try to vomit.

Skin contact : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

Eye contact : IF IN EYE CONTACT: Rinse carefully with water for a few minutes. Remove contact lenses, if present and easy to perform. Continue rinsing..

4.2. Most important symptoms and effects, both acute and delayed

Inhalation : Dizzines

Ingestion : Nausea, vomiting.

Skin contact : Causes severe skin irritation.

Eye contact : Causes serious eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor: No specific recommendations.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media
This product is not flammable. Extinguish with foam, carbon dioxide, dry powder or water fog.

5.2. Special hazards arising from the substance or mixture

Specific hazards

In case of fire, toxic gases may be formed. Carbon monoxide (CO). Carbon dioxide (CO_2).
May cause explosion hazard of dust.

5.3. Advice for firefighters

Special Fire Fighting Procedures
Avoid breathing fire fumes. If this can be done without risk, move the container away from the fire area. If possible, intervene the fire from a protected place.

Protective equipment for fire-fighters
Self-contained breathing apparatus and full protective clothing should be worn in case of fire. Face mask, protective gloves and safety helmet should be used.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin and eyes.

6.2. Environmental precautions

Environmental precautions: Not considered to be a significant hazard due to the small quantities used.

6.3. Methods and material for containment and cleaning up

Wash off spills with plenty of water. Avoid contamination of ponds or streams with wash water. Absorb spillage with non-combustible absorbent material. Do not discharge into drains, waterways or on the ground.

6.4. Reference to other sections

For personal protection, see section 8.
See section 11 for additional information on health hazards.
For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Do not eat, drink or smoke when using the product. Protect against direct sunlight.
Read and follow manufacturer's recommendations. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Stable at normal ambient temperatures.
Protect from light, including direct sunrays.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure guidelines do not apply when the product is used as intended in a home environment.

DNEL Values

Sodium Hypochlorite
(DNEL) 1.55 mg/m³ Systemic Effects Long-term Inhalation Exposure Workers

(DNEL) 3.1 mg/m³ Systemic Effects Acute/short-term Inhalation Exposure Workers
(DNEL) 1.55 mg/m³ Local Effects Long-term Inhalation Exposure Workers
(DNEL) 3.1 mg/m³ Local Effects Acute/short-term Inhalation Exposure Workers
(DNEL) 1.55 mg/m³ Systemic Effects Long-term Inhalation Exposure General Population
(DNEL) 3.1 mg/m³ Systemic Effects Acute/short-term Inhalation Exposure General Population
(DNEL) 1.55 mg/m³ Local Effects Long-term Inhalation Exposure General Population
(DNEL) 3.1 mg/m³ Local Effects Acute/short-term Inhalation Exposure General Population
(DNEL) 260 µg/kg bw/day Systemic Effects Long-term Oral Exposure General Population

Sodium Hydroxide
(DNEL) 1 mg/m³ Local Effects Long-term Inhalation Exposure Workers
(DNEL) 1 mg/m³ Local Effects Long-term Inhalation Exposure General Population

Alcohols, C12-14, ethoxylated, sulfates, sodium salts
(DNEL) 19.6 mg/m³ Systemic Effects Long-term Inhalation Exposure Workers
(DNEL) 3.48 mg/m³ Systemic Effects Long-term Inhalation Exposure General Population
(DNEL) 187 mg/kg bw/day Systemic Effects Long-term Dermal Exposure Workers
(DNEL) 66.7 mg/kg bw/day Systemic Effects Long-Term Dermal Exposure General Population
(DNEL) 1.33 mg/kg bw/day Systemic Effects Long-Term Oral Exposure General Population

Sulfuric acid, mono-C12-16-alkyl esters, sodium salts
(DNEL) 285 mg/m³ Systemic Effects Long-term Inhalation Exposure Workers
(DNEL) 85 mg/m³ Systemic Effects Long-term Inhalation Exposure General Population
(DNEL) 4060 mg/kg bw/day Systemic Effects Long-term Dermal Exposure Workers
(DNEL) 2440 mg/kg bw/day Systemic Effects Long-term Dermal Exposure General Population
(DNEL) 24 mg/kg bw/day Systemic Effects Long-term Oral Exposure General Population

Citral
(DNEL) 9 mg/m³ Systemic Effects Long-term Inhalation Exposure Workers
(DNEL) 2.7 mg/m³ Systemic Effects Long-term Inhalation Exposure General Population
(DNEL) 1.7 mg/kg bw/day Systemic Effects Long-Term Dermal Exposure Workers
(DNEL) 140 µg/cm² Local Effects Long-Term Dermal Exposure Workers
(DNEL) 1 mg/kg bw/day Systemic Effects Long-Term Dermal Exposure General Population
(DNEL) 140 µg/cm² Local Effects Long-Term Dermal Exposure General Population
(DNEL) 600 µg/kg bw/day Systemic Effects Long-Term Oral Exposure General Population

Citronellal
(DNEL) 9 mg/m³ Systemic Effects Long-Term Inhalation Exposure Workers
DNEL) 2.7 mg/m³ Systemic Effects Long-Term Inhalation Exposure General Population
(DNEL) 1.7 mg/kg bw/day Systemic Effects Long-Term Dermal Exposure Workers
(DNEL) 140 µg/cm² Local Effects Long-Term Dermal Exposure Workers
(DNEL) 1 mg/kg bw/day Systemic Effects Long-Term Dermal Exposure General Population
(DNEL) 140 µg/cm² Local Effects Long-Term Dermal Exposure General Population
(DNEL) 600 µg/kg bw/day Systemic Effects Long-Term Oral Exposure General Population

7-Octen-2-Ol, 2,6-Dimethyl-
(DNEL) 24.7 mg/m³ Systemic Effects Long-Term Inhalation Workers
(DNEL) 4.35 mg/m³ Systemic Effects Long-Term Inhalation Exposure General Population
(DNEL) 7 mg/kg bw/day Systemic Effects Long-Term Dermal Exposure Workers
(DNEL) 2.5 mg/kg bw/day Systemic Effects Long-Term Dermal Exposure General Population
(DNEL) 2.5 mg/kg bw/day Systemic Effects Long-Term Oral Exposure General Population

Benzene, 1,1'-Oxybis
(DNEL) 59 mg/m³ Systemic Effects Long-Term Inhalation Workers
(DNEL) 7 mg/m³ Local Effects Long-Term Inhalation Workers
(DNEL) 14 mg/m³ Local Effects Acute/Short-Term Inhalation Workers
(DNEL) 25 mg/kg bw/day Systemic Effects Long-Term Dermal Exposure Workers

2-Oxabicyclo[2.2.2]Octane, 1,3,3-Trimethyl-

(DNEL) 5.12 mg/m³ Systemic Effects Long-Term Inhalation Exposure Workers
(DNEL) 1.26 mg/m³ Systemic Effects Long-Term Inhalation Exposure General Population
(DNEL) 1.45 mg/kg bw/day Systemic Effects Long-Term Dermal Exposure Workers
(DNEL) 133.3 µg/cm² Local Effects Long-Term Dermal Exposure Workers
(DNEL) 730 µg/kg bw/day Systemic Effects Long-Term Dermal Exposure General Population
(DNEL) 730 µg/kg bw/day Systemic Effects Long-Term Oral Exposure General Population

Limonene
(DNEL) 66.7 mg/m³ Systemic Effects Long-Term Inhalation Exposure Workers
(DNEL) 16.6 mg/m³ Systemic Effects Long-Term Inhalation Exposure General Population
(DNEL) 9.5 mg/kg bw/day Systemic Effects Long-Term Dermal Exposure Workers
(DNEL) 4.8 mg/kg bw/day Systemic Effects Long-Term Dermal Exposure General Population
(DNEL) 4.8 mg/kg bw/day Systemic Effects Long-Term Oral Exposure General Population

Citronellol
(DNEL) 161.6 mg/m³ Systemic Effects Long-Term Inhalation Exposure Workers
(DNEL) 10 mg/m³ Local Effects Long-Term Inhalation Exposure Workers
(DNEL) 10 mg/m³ Local Effects Acute/Short-Term Inhalation Exposure Workers
(DNEL) 47.9 mg/m³ Systemic Effects Long-Term Inhalation Exposure General Population
(DNEL) 10 mg/m³ Local Effects Long-Term Inhalation Exposure General Population
(DNEL) 10 mg/m³ Local Effects Acute/Short-Term Inhalation Exposure General Population
(DNEL) 327.4 mg/kg bw/day Systemic Effects Long-Term Dermal Exposure Workers
(DNEL) 2.95 mg/cm² Local Effects Acute/Short-Term Dermal Exposure Workers
(DNEL) 196.4 mg/kg bw/day Systemic Effects Long-Term Dermal Exposure General Population
(DNEL) 2.95 mg/cm² Local Effects Acute/Short-Term Dermal Exposure General Population
(DNEL) 13.8 mg/kg bw/day Systemic Effects Long-Term Oral Exposure General Population

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide;(HHCB)
(DNEL) 13.5 mg/m³ Systemic Effects Long-Term Inhalation Workers
(DNEL) 4 mg/m³ Systemic Effects Long-Term Inhalation General Population
(DNEL) 36.7 mg/kg bw/day Systemic Effects Long-Term Dermal Exposure Workers
(DNEL) 22 mg/kg bw/day Systemic Effects Long-Term Dermal Exposure General Population
(DNEL) 2.3 mg/kg bw/day Systemic Effects Long-Term Oral Exposure General Population

(2E)-2-(phenylmethylidene)octanal
((DNEL) 78 µg/m³ Systemic Effects Long-Term Inhalation Exposure Workers
(DNEL) 6.28 mg/m³ Local Effects Acute/Short-Term Inhalation Exposure Workers Workers
(DNEL) 19 µg/m³ Systemic Effects Long-Term Inhalation Exposure General Population
(DNEL) 4.71 mg/m³ Local Effects Acute/Short-Term Inhalation Exposure General Population
(DNEL) 18.2 mg/kg bw/day Systemic Effects Long-Term Dermal Exposure Workers
(DNEL) 525 µg/cm² Local Effects Long-Term Dermal Exposure Workers
(DNEL) 525 µg/cm² Local Effects Acute/Short-Term Dermal Exposure Workers
(DNEL) 9.11 mg/kg bw/day Systemic Effects Long-Term Dermal Exposure General Population
(DNEL) 78.7 µg/cm² Local Effects Long-Term Dermal Exposure General Population
(DNEL) 78.7 µg/cm² Local Effects Acute/Short-Term Dermal Exposure General Population
(DNEL) 56 µg/kg bw/day Systemic Effects Long-Term Oral Exposure General Population

2-Buten-1-One, 1-[(1r,2s)-2,6,6-Trimethyl-3-Cyclohexen-1-Yl]-, (2e)-Rel
(DNEL) 1.5 mg/m³ Systemic Effects Long-Term Inhalation Exposure Workers
(DNEL) 430 µg/m³ Systemic Effects Long-Term Inhalation Exposure General Population
(DNEL) 2.1 mg/kg bw/day Systemic Effects Long-Term Dermal Exposure Workers
(DNEL) 116 µg/cm² Local Effects Long-Term Dermal Exposure Workers
(DNEL) 1.25 mg/kg bw/day Systemic Effects Long-Term Dermal Exposure General Population
(DNEL) 69 µg/cm² Local Effects Long-Term Dermal Exposure General Population
(DNEL) 250 µg/kg bw/day Systemic Effects Long-Term Oral Exposure General Population

Benzene, 1-Methyl-4-(1-Methylethyl)-
(DNEL) 880 µg/m³ Systemic Effects Long-Term Inhalation Workers
(DNEL) 220 µg/m³ Systemic Effects Long-Term Inhalation Workers

(DNEL) 250 µg/kg bw/day Systemic Effects Long-Term Dermal Exposure Workers
(DNEL) 125 µg/kg bw/day Systemic Effects Long-Term Dermal Exposure General Population
(DNEL) 125 µg/kg bw/day Systemic Effects Long-Term Oral Exposure General Population

Linalool
(DNEL) 24.58 mg/m³ Systemic Effects Long-Term Inhalation Exposure Workers
(DNEL) 4.33 mg/m³ Systemic Effects Long-Term Inhalation Exposure General Population
(DNEL) 3.5 mg/kg bw/day Systemic Effects Long-Term Dermal Exposure Workers
(DNEL) 3 mg/kg bw/day Local Effects Long-Term Dermal Exposure Workers
(DNEL) 3 mg/kg bw/day Local Effects Acute/Short-Term Dermal Exposure Workers
(DNEL) 1.25 mg/kg bw/day Systemic Effects Long-Term Dermal Exposure General Population
(DNEL) 1.5 mg/cm² Local Effects Long-Term Dermal Exposure General Population
(DNEL) 1.5 mg/cm² Local Effects Acute/Short-Term Dermal Exposure General Population
(DNEL) 2.49 mg/kg bw/day Systemic Effects Long-Term Oral Exposure General Population

musk ketone; 3,5-dinitro-2,6-dimethyl-4-tert-butylacetophenone; 4'-tert-butyl-2', 6'-dimethyl-3',; 5'- dinitroacetophenone
(DNEL) 247 µg/m³ Systemic Effects Long-Term Inhalation Workers
(DNEL) 43.5 µg/m³ Systemic Effects Long-Term Inhalation General Population
(DNEL) 563 µg/kg bw/day Systemic Effects Long-Term Dermal Exposure Workers
(DNEL) 67 µg/kg bw/day Systemic Effects Long-Term Dermal Exposure General Population
(DNEL) 25 µg/kg bw/day Systemic Effects Long-Term Oral Exposure General Population

Eugenol
(DNEL) 21.2 mg/m³ Systemic Effects Long-Term Inhalation Workers
(DNEL) 5.22 mg/m³ Systemic Effects Long-Term Inhalation General Population Population
(DNEL) 6 mg/kg bw/day Systemic Effects Long-Term Dermal Exposure Workers
(DNEL) 3 mg/kg bw/day Systemic Effects Long-Term Dermal Exposure General Population
(DNEL) 3 mg/kg bw/day Systemic Effects Long-Term Oral Exposure General Population

PNEC Values

Sodium Hypochlorite
Hazardous to Aquatic Organisms
Freshwater 210 ng/L (1)
Intermittent releases (freshwater) 260 ng/L (1)
Marine water 42 ng/L (1)
Intermittent releases (marine water) -
Sewage treatment plant (STP) 4.69 mg/L (1)
Sediment (freshwater) No exposure to sediment expected (1)
Sediment (marine water) No exposure to sediment expected (1)
Hazardous to Predators
Secondary poisoning 11.1 mg/kg food (1)

Citral
Hazardous to Aquatic Organisms
Freshwater 6.78 µg/L (1)
Intermittent releases (freshwater) 67.8 µg/L (1)
Marine water 678 ng/L (1)
Intermittent releases (seawater) -
Sewage treatment plant (STP) 1.6 mg/L (1)
Sediment (freshwater) 125 µg/kg sediment dw (1)
Sediment (seawater) 12.5 µg/kg sediment dw (1)

Citronellal
Hazardous to Aquatic Organisms
Freshwater 8.68 µg/L (1)
Intermittent releases (freshwater) 86.8 µg/L (1)
Seawater 870 ng/L (1)
Intermittent releases (seawater) -

Sewage treatment plant (STP) 4 mg/L (1)
Sediment (freshwater) 159 µg/kg sediment dw (1)
Sediment (seawater) 15.9 µg/kg sediment dw (1)

Alcohols, C12-14, ethoxylated, sulfates, sodium salts
Hazardous to Aquatic Organisms
Freshwater 3.4 µg/L (1)
Intermittent releases (freshwater) 445 ng/L (1)
Seawater 340 ng/L (1)
Intermittent releases (seawater) 44.5 ng/L (1)
Sewage treatment plant (STP) 200 µg/L (1)
Sediment (freshwater) 89.5 µg/kg sediment dw (1)
Sediment (seawater) 8.95 µg/kg sediment dw (1)

Sulfuric acid, mono-C12-16-alkyl esters, sodium salts
Hazardous to Aquatic Organisms
Freshwater 95.8 µg/L (1)
Intermittent releases (fresh water) 13 µg/L (1)
Sea water 9.6 µg/L (1)
Intermittent releases (sea water) -
Sewage treatment plant (STP) 6.8 mg/L (1)
Sediment (fresh water) 3.37 mg/kg sediment dw (1)
Sediment (sea water) 337 µg/kg sediment dw (1)

Benzene, 1,1'-Oxybis-
Hazardous to Aquatic Organisms
Fresh water 13 µg/L (1)
Intermittent releases (fresh water) 16.4 µg/L (1)
Sea water 1.3 µg/L (1)
Intermittent releases (sea water) -
Sewage treatment plant (STP) 1 mg/L (1)
Sediment (fresh water) 1.35 mg/kg sediment dw (1)
Sediment (seawater) 135 µg/kg sediment dw (1)

7-Octen-2-Ol, 2,6-Dimethyl-
Hazardous to Aquatic Organisms
Freshwater 27.8 µg/L (1)
Intermittent releases (freshwater) 278 µg/L (1)
Seawater 2.78 µg/L (1)
Intermittent releases (seawater) -
Sewage treatment plant (STP) 10 mg/L (1)
Sediment (freshwater) 594 µg/kg sediment dw (1)
Sediment (seawater) 59.4 µg/kg sediment dw (1)

2-Oxabicyclo[2.2.2]Octane, 1,3,3-Trimethyl-
Hazardous to Aquatic Organisms
Freshwater 5.2 µg/L (1)
Intermittent releases (freshwater) 52 µg/L (1)
Seawater 520 ng/L (1)
Intermittent releases (seawater) -
Sewage treatment plant (STP) 3 mg/L (1)
Sediment (freshwater) 581 µg/kg sediment dw (1)
Sediment (seawater) 58.1 µg/kg sediment dw (1)

Limonene
Hazardous to Aquatic Organisms
Freshwater 14 µg/L (1)
Intermittent releases (freshwater) -
Seawater 1.4 µg/L (1)

Intermittent releases (seawater) -
Sewage treatment plant (STP) 1.8 mg/L (1)
Sediment (freshwater) 3.85 mg/kg sediment dw (1)
Sediment (seawater) 385 µg/kg sediment dw (1)

Citronellol
Hazardous to Aquatic Organisms
Freshwater 2.4 µg/L (1)
Intermittent releases (freshwater) 24 µg/L (1)
Marine water 240 ng/L (1)
Intermittent releases (marine water) -
Sewage treatment plant (STP) 580 mg/L (1)
Sediment (freshwater) 25.6 µg/kg sediment dw (1)
Sediment (marine water) 2.56 µg/kg sediment dw (1)

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide;(HHCB)
Hazardous to Aquatic Organisms
Freshwater 6.8 µg/L (1)
Intermittent releases (freshwater) -
Seawater 440 ng/L (1)
Intermittent releases (seawater) -
Sewage treatment plant (STP) 1 mg/L (1)
Sediment (freshwater) 2 mg/kg sediment dw (1)
Sediment (marine water) 394 µg/kg sediment dw (1)

(2E)-2-(phenylmethylidene)octanal
Hazardous to Aquatic Organisms
Freshwater 1.26 µg/L (1)
Intermittent releases (freshwater) 2.47 µg/L (1)
Seawater 126 ng/L (1)
Intermittent releases (seawater) -
Sewage treatment plant (STP) 10 mg/L (1)
Sediment (fresh water) 3.2 mg/kg sediment dw (1)
Sediment (sea water) 64 µg/kg sediment dw (1)
2-Butene-1- One, 1-[(1r,2s)-2,6,6-Trimethyl-3-Cyclohexen-1-Yl]-, (2e)-Rel
Hazardous to Aquatic Organisms
Freshwater 7.4 µg/L (1)
Intermittent releases (fresh water) -
Sea water 740 ng/L (1)
Intermittent releases (sea water) -
Sewage treatment plant (STP) 2.41 mg/L (1)
Sediment (fresh water) 958 µg/kg sediment dw (1)
Sediment (sea water) 95.8 µg/kg sediment dw (1)

Benzene, 1-Methyl-4-(1-Methylethyl)-
Freshwater 3.7 - 5.8 µg/L (2)
Intermittent releases (freshwater) 37 - 58 µg/L (2)
Marine water 370 - 580 ng/L (2)
Intermittent releases (marine water) 3.7 - 5.8 µg/L (2)
Sewage treatment plant (STP) 2 - 10 mg/L (2)
Sediment (freshwater) 1.52 - 2.93 mg/kg sediment dw (2)
Sediment (marine water) 152 - 293 µg/kg sediment dw (2)

Linalool
Hazardous to Aquatic Organisms
Freshwater 200 µg/L (1)
Intermittent releases (fresh water) 2 mg/L (1)
Sea water 20 µg/L (1)
Intermittent releases (sea water) -

Sewage treatment plant (STP) 10 mg/L (1)
Sediment (fresh water) 2.22 mg/kg sediment dw (1)
Sediment (sea water) 222 µg/kg sediment dw (1)

musk ketone; 3.5-dinitro-2.6-dimethyl-4-tert-butylacetophenone; 4'-tert-butyl-2', 6'-dimethyl-3',; 5'- dinitroacetophenone
Hazardous to Aquatic Organisms
Freshwater 244 ng/L (1)
Intermittent releases (freshwater) 2.44 µg/L (1)
Seawater 24.4 ng/L (1)
Intermittent releases (seawater) -
Sewage treatment plant (STP) 10 mg/L (1)
Sediment (freshwater) 61.8 µg/kg sediment dw (1)
Sediment (seawater) 6.18 µg/kg sediment dw (1)

Eugenol
Hazardous to Aquatic Organisms
Freshwater 201.5 µg/L (1)
Intermittent releases (freshwater) 11.3 µg/L (1)
Seawater 20.15 µg/L (1)
Intermittent releases (seawater) -
Sewage treatment plant (STP) No hazard identified (1)
Sediment (freshwater) 14,488 mg/kg sediment dw (1)
Sediment (seawater) 1,449 mg/kg sediment dw (1)

8.2. Exposure controls

Protective equipment
Engineering control : Not relevant.
Respiratory equipment : No personal protective respiratory equipment is normally required. Respiratory protection in case of vapor/aerosol release. Particulate filter EN 143 or 149, Type P2 or FFP2, medium filtering capacity (solid and liquid particles of less toxic substances).
Hand protection : Protective in case of prolonged or repeated contact wear gloves. Protective gloves conforming to EN 374.
Eye protection : Close-fitting safety glasses (closed goggles) (Class EN 166) and face mask.
Other skin and body protection : Wear protective clothing such as rubber or neoprene gloves and a long sleeved T- shirt
Hygiene measures : Eating, drinking, smoking and inhaling any substance in the workplace it is forbidden. Use in accordance with good industrial hygiene and safety practices. Personal protection equipment must be free of hazardous and harmful substances before reuse.
Environmental Exposure Controls : Not relevant.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Colourless
Odour	Characteristic
Solubility	No data available
Boiling Point	No data available
Melting point	No data available
pH-Value	12,5-13,5
Flash Point	No data available
Viscosity	No data available
Decomposition temperature	No data available

Density	No data available
Partition Coefficient (N-Octanol/Water)	No data available

9.2. Other information

No information required.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No specific reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use. Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Hazardous Polymerisation

Stable under suitable storage conditions.

10.4. Conditions to avoid

There are no known conditions that are likely to result in a hazardous situation.

10.5. Incompatible materials

There are no known data based on the information given.

10.6. Hazardous decomposition products

Does not decompose when used and stored as recommended.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

Sodium Hypochlorite
Oral
LD50 1 100 mg/kg bw (rat) [1]
LD0 626 mg/kg bw (rat) [1]
Dermal
LD50 20 000 mg/kg bw (rabbit) [1]
LD0 14 420 mg/kg bw (rabbit) [1]

Alcohols, C12-14, ethoxylated, sulfates, sodium salts
Oral routc:
No adverse effects observed LD50 1 200 mg/kg bw
Dermal route:
No adverse effects observed LD50 2 000 mg/kg bw

Sulfuric acid, mono-C12-16-alkyl esters, sodium salts
Oral route:
No adverse effects observed LD50 2 600 mg/kg bw
Dermal route:
No adverse effects observed LD50 2 000 mg/kg body weight

Citral
Oral

LD50 6 800 mg/kg bw (rat) [1]
Dermal
LD50 2 000 mg/kg bw (rat) [1]
LD0 2 000 mg/kg bw (rat) [1]

Citronellal
Oral
LD50 2 150 - 2 872 mg/kg bw (rat) [4]
Dermal
LD50 2 000 mg/kg bw (rat) [1]
LD0 2 000 mg/kg bw (rat) [1]
LD50 2 500 - 5 000 mg/kg bw (rabbit) [1]

Benzene, 1,1'-Oxybis-
Oral
LD50 2 000 mg/kg bw (rat) [1]

Limonene
Oral route:
No adverse effects observed LD50 2 000 mg/kg bw
Dermal route:
No adverse effects observed LD50 5 000 mg/kg bw

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide;(HHCB)
Oral route:
No adverse effects observed LD50 3 000 mg/kg bw
Respiratory route:
No adverse effects observed LC50 5.04 mg/L air
Dermal route:
No adverse effects observed LD50 3 250 mg/kg bw 2-Buten-1-One, 1-[(1r,2s)-2,6,6-Trimethyl-3- Cyclohexen-1-Yl]-, (2e)-Rel
Oral route:
No adverse effects observed LD50 1 950 mg /kg bw
Dermal route:
No adverse effects observed LD50 5 000 mg/kg bw

Benzene, 1-Methyl-4-(1-Methylethyl)-
Oral route:
No adverse effects observed LD50 4,750 mg/kg bw
Respiratory route:
No adverse effects observed LC50 9.7 mg/L air
Dermal route:
No adverse effects observed LD50 5,000 mg/kg bw

Linalool
Oral route:
No adverse effects observed LD50 2 200 mg/kg bw
Respiratory route:
No adverse effects observed Discriminant concentration. 3.2 mg/L air
Dermal route:
No adverse effects observed LD50 5 610 mg/kg bw

Eugenol
Oral route:
No adverse effects observed LD50 2 000 mg/kg bw
Respiratory route:
No adverse effects observed LC50 2.6 mg/L air

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Sodium Hypochlorite
Short-term fish stability
LC50 (4 days) 1.26 - 5 mg/L [4]
Short-term toxicity to aquatic invertebrates
EC50 (48 hours) 2.4 - 8 mg/L [2]

Sodium Hydroxide
Short-term toxicity to aquatic invertebrates
EC50 (48 hours) 40.4 mg/L [2]

Alcohols, C12-14, ethoxylated, sulfates, sodium salts
Short-term toxicity to fish
LC50 (4 days) 29 mg/L [1]
Short-term toxicity to aquatic invertebrates
LC50 (48 hours) 3.15 - 5.55 mg/L [2]

Sulfuric acid, mono-C12-16-alkyl esters, sodium salts
Short-term toxicity to fish
LC50 (4 days) 1.3 mg/L [1]
Short-term toxicity to aquatic invertebrates
EC50 (48 hours) 2.8 mg/L [1]

Citral
Short-term toxicity to aquatic invertebrates
EC50 (48 hours) 6.8 mg/L [1]
EC0 (48 hours) 3.13 mg/L [1]
EC100 (48 hours) 25 mg/L [1]

Citronellal
Short-term toxicity to fish
LC50 (4 days) 22 mg/L [1]
LC100 (4 days) 46.4 mg/L [1]
NOEC (4 days) 10 mg/L [1]
Benzene, 1,1'-Oxybis-
Short-term toxicity to fish
LC50 (4 days) 1.3 mg/L [1]
NOEC (4 days) 1 mg/L [1]
Short-term toxicity to aquatic invertebrates
LC50 (48 hours) 1.64 - 3.63 mg/L [2]
NOEC (48 hours) 500 µg/L [1]
7-Octen-2-Ol, 2,6-Dimethyl-
Short-term toxicity to fish
LC50 (4 days) 27.8 mg/L [1]
LC50 (72 hours) 27.8 mg/L [1]
LC50 (48 hours) 27.8 mg/L [1]
LC50 (24 hours) 27.8 mg/L [1]
LC0 (4 days) 19.9 mg/L [1]
Short-term toxicity to aquatic invertebrates
EC50 (48 hours) 38 mg/L [1]
EC50 (24 hours) 47 mg/L [1]
NOEC (48 hours) 10 mg/L [1]
NOEC (24 hours) 18 mg/L [1]

Limonene
Short-term toxicity to fish
LC50 (4 days) 460 - 720 µg/L [3]
EC50 (4 days) 688 - 702 µg/L [2]
Short-term toxicity to aquatic invertebrates
EC50 (48 hours) 307 - 510 µg/L [2]
EC50 (24 hours) 840 µg/L [1]
EC10 (48 hours) 420 µg/L [1]
EC10 (24 hours) 450 µg/L [1]

Citronellol
Short-term toxicity to fish
LC50 (4 days) 14.66 mg/L [1]
LC0 (4 days) 10 mg/L [1]
LC100 (4 days) 21.5 mg/L [1]
NOEC (4 days) 4.6 mg/L [1]
Short-term toxicity to aquatic invertebrates
EC50 (48 hours) 17.48 mg/L [1]
EC0 (48 hours) 6.24 mg/L [1]
EC100 (48 hours) 49.9 mg/L [1]
NOEC (48 hours) 3.1 mg/L [1]

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide;(HHCB)
Short-term toxicity to fish
LC50 (4 days) 950 µg/L [1]
Short-term toxicity to aquatic invertebrates
EC50 (48 hours) 194 µg/L [1]
EC50 (24 hours) 568 µg/L [1]
LC50 (48 hours) 470 µg/L [1]

(2E)-2-(phenylmethylidene)octanal
Short–term toxicity to fish
LC50 (4 days) 1.7 mg/L [1]
NOEC (4 days) 930 µg/ L [1]
Short–term toxicity to aquatic invertebrates
EC50 (48 h) 360 - 590 µg/L [1]

2-Buten-1-One, 1-[(1r,2s)-2,6,6-Trimethyl-3- Cyclohexen-1-Yl]-, (2e)-Rel
Short-term toxicity to fish
LC50 (4 days) 13 - 20.973 mg/L [2] Short-term toxicity to aquatic invertebrates
LC50 (48 hours) 12,905 mg/L [1]

Benzene, 1-Methyl-4-(1-Methylethyl)-
Short-term toxicity to fish
LC50 (4 days) 48 mg/L [2]
LC50 (72 hours) 48 mg/L [1]
LC50 (48 hours) 50 mg/L [2]
LC50 (24 hours) 56 mg/L [2]
NOEC (4 days) 10 mg/L [2]
To aquatic invertebrates Short-term toxicity to EC50 (48 (hours) 3.7 mg/L [1]
LC50 (48 hours) 6.5 mg/L [1]
LC50 (24 hours) 9.4 mg/L [1]
NOEC (48 hours) 2.3 mg/L [1]
Bornan-2-one
Short-term toxicity to fish
LC50 (4 days) 33.25 mg/L [2]
Short-term toxicity to aquatic invertebrates
EC50 (48 hours) 4.23 mg/L [2]

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool
Short-term toxicity to fish
LC50 (4 days) 27.8 mg/L [1]
LC50 (72 hours) 27.8 mg/L [1]
LC50 (48 hours) 27.8 mg/L [1]
LC50 (24 hr) 27.8 mg/L [1]
LC0 (4 days) 19.9 mg/L [1]
Short-term toxicity to aquatic invertebrates
EC50 (48 hr) 59 mg/L [1]
EC50 (24 hr) 71 mg/L [1]
EC100 (48 hours) 75 mg/L [1]
NOEC (48 hours) 25 mg/L [1]

musk ketone; 3,5-dinitro-2,6-dimethyl-4-tert-butylacetophenone; 4'-tert-butyl-2', 6'-dimethyl-3',; 5'- dinitroacetophenone
Short-term toxicity to fish
LC50 (4 days) 385 µg/L [1]
LC50 (72 hours) 385 µg/L [1]
LC50 (48 hours) 385 µg/L [1]
LC50 (24 hours) 385 µg/L [1]
LC0 (4 days) 385 µg/L [1]
Short-term toxicity to aquatic invertebrates
EC50 (48 hours) 432 µg/L [1]
EC50 (24 hours) 432 µg/L [1]
EC0 (48 hours) 432 µg/L [1]
EC0 (24 hours) 432 µg/L [1]
EC100 (48 hours) 432 µg/L [1]

Eugenol
Short-term toxicity to fish
LC50 (4 days) 13 mg/L [1]
LC50 (72 hours) 13 mg/L [1]
LC50 (48 hours) 13 mg/L [1]
LC50 (24 hours) 13 mg/L [1]
LC100 (4 days) 18 mg/L [1]
Short-term toxicity to aquatic invertebrates
EC50 (48 hours) 1.05 - 1.13 mg/L [2]
EC0 (48 hours) 360 µg /L [1]
EC100 (48 hours) 3.08 mg/L [1]

12.2. Persistence and degradability
No data available.

12.3. Bioaccumulative potential
No data available.

12.4. Mobility in soil
Mobility:
Insoluble in water.

12.5. Results of PBT and vPvB assessment
This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects
Other adverse effects: None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Do not allow runoff to sewer, waterway or ground. Dispose of waste and residues in accordance with local authority requirements. Contact specialist disposal companies. Environmental manager must be informed of all major spillages.

SECTION 14: TRANSPORT INFORMATION

General — The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID)

14.1. UN number

UN 3266

14.2. UN proper shipping name

CORROSIVE LIQUID, BASIC INORGANIC (SODIUM HYPOCHLORIDE)

14.3. Transport hazard class(es)

ADR Class: VIII
IMDG Class VIII
ICAO/IATA: VIII

14.4 Packing group

14.5. Environmental hazards

ADR/RID/ADN Packing group II
IMDG Packing group II
ICAO-IATA Packing group II

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

14.8. Environmental damages

Environmentally Dangerous Substance/Marine Polluting Substance

It is a substance that is harmful to the environment

14.9. Special precautions for the user

Packing instruction: P001

IBC02

Hazard number: 80

Tunnel Restriction Code: 2 (E)

SECTION 15: REGULATORY INFORMATION

This format refers to MSDS requirements American National Standard Institute(ANSI) and International Standard Organization (ISO)

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms used in the safety data sheet
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.(ADR 2015)
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
IATA: International Air Transport Association.
ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
IMDG: International Maritime Dangerous Goods.
CAS: Chemical Abstracts Service.
ATE: Acute Toxicity Estimate.
PBT: Persistent, Bioaccumulative and Toxic substance.
vPvB: Very Persistent and Very Bioaccumulative.
This product is classified according to EU Directive GHS/CLP.
This safety datasheet complies with the requirements of Regulation (EC) No.1907/2006 (REACH).

Revision Comments: -

Hazard Statements All

H226 Flammable liquid and vapour.
H228 Flammable solid.
H290 It can corrode metals.
H302 Harmful if swallowed.
H304 May be fatal if it enters the respiratory tract and is swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause allergic skin reactions.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H336 It may cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H361 Suspected of damaging the unborn child or fertility if inhaled.
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.

Prepared the Safety Data Sheet
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Certificate Number: KDU01.32.02 Certificate Date: 20 May 2023

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guar0antee or representation is made to its accuracy, reliability or

completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.