SAFETY DATA SHEET

OVEN CLEAN **UNICARE (CHEMICALS) LTD**

1 Identification

GHS Product Identifier
OVEN CLEAN

Other means of identification
OVEN CLEAN

Recommended use of the chemical and restriction on use
Professional use.

Supplier's details
Unicare (Chemicals) Ltd
P.O.Box 54088,
Aradippou Industrial Area, Cyprus.
Tel. +357-24531766, Fax. +357-24532111
email: team@unicaregroup.com

Emergency phone number
1401

2 Hazard(s) identification

Classification of the substance or mixture

Corrosive to metals: Category 1
Skin irritation : Category 1
Eye irritation : Category 1
Acute toxicity (Oral) : Category 4
Acute toxicity (Inhalation) : Category 4
Acute toxicity (Dermal) : Category 4

GHS label elements
Danger

May be corrosive to metals
Causes severe skin burns and eye damage
Causes serious eye damage
Harmful if swallowed
Harmful in contact with skin
Harmful if inhaled
If medical advice is needed,have product container or label at hand.
Keep out of reach of children.
Read label before use.
Keep only in original container.
Do not breathe dust/fume/gas/mist/vapours/spray.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
Absorb spillage to prevent material damage.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower. Wash contaminated clothing before reuse.
IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.
IF ON SKIN: Wash with plenty of soap and water.
Store locked up.
Store in corrosive resistant/or in a container with a resistant inner liner.
Dispose of contents/container to according to local/national/international regulations.

3. Composition/information on ingredients

Description	CAS Number	EINECS Number	%	Note
Xanthan gum	11138-66-2		<1	
Sodium Hydroxide	1310-73-2		5 - 10	Met. Corr. 1 ,Skin Corr. 1A, Eye Dam. 1
Decyl Glucoside	68515-73-1	500-220-1	<5	Eye Dam./Irrit. 1
2-butoxietanol	111-76-2		<5	Flam. Liq. 4, Acute Tox. 4 (oral), Acute Tox. 4 (Inhalation - mist), Acute Tox. 4 (dermal), Skin Corr./Irrit. 2, Eye Dam./Irrit. 2A
trisodium nitrilotriacetate	5064-31-3		<1	Acute Tox. 4 (oral), Eye Dam./Irrit. 2A , Carc. 2, Aquatic Acute 3
1-methoxy-2-propanol	107-98-2		5-10	Flam. Liq. 3, STOT SE 3

4. First-aid measures

Description of necessary first-aid measures
Inhalation: Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.
Skin contact: Remove contaminated clothes and rinse skin thoroughly with water.
Eye contact: Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.
Ingestion: Do not induce vomiting. Rinse mouth with water. Get medical attention

Most important symptoms/effects, acute and delayed
No information available.

Indication of immediate medical attention and special treatment needed, if necessary
No information available.

5 Fire-fighting measures

Suitable extinguishing media
Suitable extinguishing media: water spray, carbon dioxide, dry powder, foam
Specific hazards arising from the chemical
Ambient fire may liberate hazardous vapours.
Special protective actions for fire-fighters
Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.
Ventilate well. Stop leak if possible without risk. Avoid contact with skin and eyes. Do not breathe vapour. For personal
protection.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

Methods and materials for containment and cleaning up

For small amounts: Pick up with suitable absorbent material.
For large amounts: Dike spillage. Pump off product.
Dispose of absorbed material in accordance with regulations.

7 Handling and storage

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 vapor. Do not breathe mist, vapors, spray.

Hygiene measures : Wash exposed skin thoroughly after handling. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Technical measures: Comply with applicable regulations.

Storage conditions: Keep only in the original container in a cool, well ventilated place away from : incompatible materials. Keep container closed when not in use.

Incompatible products: Strong bases. Strong acids.

Incompatible materials: Sources of ignition. Direct sunlight.

8 Exposure controls/personal protection

Control parameters

Components with occupational exposure limits.

Derived No Effect Level (DNEL)

CAS-1310-73-2: sodium hydroxide
Worker : long term - Local effects - inhalation 1 mg/m³
Consumer: long term - Local effects - inhalation 1 mg/m³

GAS-68515-73-1: Decyl Glucoside
worker: Long term exposure- systemic effects, dermal: 595000 mg/kg
worker: Long term exposure- systemic effects, Inhalation: 420 mg/m3
consumer: Long term exposure- systemic effects, dermal: 357000 mg/kg
consumer: Long term exposure- systemic effects, oral: 35.7 mg/kg
consumer: Long term exposure- systemic effects, Inhalation: 124 mg/m3

CAS-111-76-2 : 2-Butoxyethanol
Worker: Long term (repeated) -Systemic effect, Inhalation :20 ppm
Worker: Long term (repeated) - Systemic effect , Dermal: 75 mg/kg
Consumer: Long term (repeated) -Systemic effect, Inhalation : 49 mg/m3
Consumer: Short term (acute)- Local effect, Inhalation : 123 mg/m3
Consumer: Long term (repeated) - Systemic effect, Oral : 3,2 mg/kg

Consumer : Long term (repeated)- Systemic effect, Dermal : 38 mg/kg

CAS-107-98-2 : 1-methoxy-2-propanol
no data available
CAS-5064-31-3: Trisodium Nitrilotriacetate
no data available

Predicted No Effect Concentration (PNEC)
CAS-1310-73-2 :sodium hydroxide
no data available

CAS-68515-73-1: Decyl Glucoside
freshwater: 0.176 mg/l
marine water: 0.0176 mg/l
intermittent release: 0.27 mg/l
STP: 560 mg/l
sediment (freshwater): 1.516 mg/kg
sediment (marine water): 0.152 mg/kg
soil: 0.654 mg/kg
oral (secondary poisoning): 111.11 mg/kg

CAS-111-76-2 : 2-Butoxyethanol
no data available

CAS-107-98-2 : 1-methoxy-2-propanol
no data available

CAS-5064-31-3: Trisodium Nitrilotriacetate
no data available

Appropriate engineering controls
Ensure adequate ventilation

Individual protection measures
Respiratory protection
Respiratory protection must be used if air contamination exceeds acceptable level.
Hand protection
Use protective gloves. Chemical resistant gloves required for prolonged or repeated contact.
Eye / face protection
Use safety goggles or face shield in case of splash risk.
Skin/Body protection
Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene / Environmental
Specific hygiene measures Wash hands after contact.

9 Physical and chemical properties

Physical and chemical properties

Appearance:Yellow Viscous liquid
Physical State: liquid
Odor: None
Odor Threshold: No data available.
pH: 12 - 13
Melting/Freezing Point: Data not available
Initial Boiling Point /Range: Data not available
Flash Point: Data not available
Evaporation Rate: Data not available
Flammability: Data not available

Vapor Pressure: Data not available
Vapor Density: Data not available
Relative density: No data available.
Solubility(ies)
Solubility in water: No data available.
Soluble Solubility (other): No data available.
Partition coefficient (n-octanol/water): No data available.
Auto-ignition temperature: Data not available
Decomposition temperature: No data available.
Viscosity: No data available.
Specific gravity(at 25˚C): 1.00 - 1.11
Brookfield Viscometer (rpm): 100-150

10 Stability and reactivity

Reactivity
No hazardous reactions if stored and handled as prescribed/indicated.
Chemical stability
Not established.
Possibility of hazardous reactions
Not established.
Conditions to avoid
Heat, flames and sparks
Incompatible materials
Data not available.
Hazardous decomposition products
Data not available.

11 Toxicological information

Toxicological (health) effects
Toxicological information of the mixture: N.A.
Toxicological information of the main substances found in the mixture:

CAS-1310-73-2: sodium hydroxide
Acute oral toxicity :
Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the
stomach.
Acute inhalation toxicity:
Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract
Acute dermal toxicity: This information is not available.

Skin irritation
Necrosis
Mixture causes severe burns.

Eye irritation
Mixture causes serious eye damage. Risk of blindness! Necrosis

Sensitisation: This information is not available.
Germ cell mutagenicity: This information is not available.
Carcinogenicity: This information is not available.
Reproductive toxicity: This information is not available.
Teratogenicity : This information is not available.

Specific target organ toxicity - single exposure: This information is not available.
Specific target organ toxicity - repeated exposure: This information is not available.
Aspiration hazard: This information is not available.

CAS-5064-31-3 :Trisodium Nitrilotriacetate
Acute Oral toxicity:
LD50 (rat) : 1,000 - 2,000 mg/kg (BASF-Test)
Acute Inhalation toxicity:
LC50(rat): > 5 mg/l
Exposure time: 4 h
An aerosol was tested.
No mortality was observed. Literature data.
Acute dermal toxicity:
LD50 (rabbit, male and female): > 10,000 mg/kg (other)

CAS-68515-73-1: Decyl Glucoside
Acute toxicity
Assessment of acute toxicity: Virtually nontoxic after a single skin contact.
Virtually nontoxic after a single ingestion.
Experimental/calculated data:
LD50 rat (oral): > 5,000 mg/kg (OECD Guideline 401)
LD50 rabbit (dermal): > 2,000 mg/kg (OECD Guideline 402)

Irritation
Assessment of irritating effects: May cause severe damage to the eyes. Not irritating to the skin.
Experimental/calculated data:
Skin corrosion/irritation rabbit: Slightly irritating. (OECD Guideline 404)

Serious eye damage/irritation rabbit: irreversible damage (OECD Guideline 405)

Respiratory/Skin sensitization
Assessment of sensitization: No sensitizing effect.
Experimental/calculated data:
guinea pig: Non-sensitizing. (OECD Guideline 406)

Germ cell mutagenicity
The substance was not mutagenic in bacteria.
Experimental/calculated data:
Ames-test Bacteria: negative (OECD Guideline 471)

Carcinogenicity : The whole of the information assessable provides no indication of a carcinogenic effect.
Reproductive toxicity: The information available on the product provides no indication of reproductive toxicity.
Developmental toxicity: In animal studies the substance did not cause malformations.
Specific target organ toxicity (single exposure): Based on the available information there is no specific target organ toxicity to be expected after a single exposure.
Repeated dose toxicity and Specific target organ toxicity (repeated exposure): No adverse effects were observed after
repeated oral exposure in animal studies.

CAS-111-76-2 : 2-Butoxyethanol
Acute oral toxicity :
LD50(rat): 1,746 mg/kg

Acute inhalation toxicity:
LC50(vapours): 2 - 20 mg/l
Exposure time: 4h

Acute dermal toxicity
LD50(Guinea Pig): > 2000 mg/kg

Inhalation: In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea. Icke
klassificerad som aspirationstoxisk (Not classified as asp. tox.)

Skin contact : Irritating to skin. Prolonged or frequent contact may cause redness, itching, eczema and skin cracking. Defats the skin.
Eye contact: May irritate and cause redness and pain. Causes serious eye irritation.
Ingestion: Ingestion of large amounts may cause unconsciousness. However, ingestion may cause nausea, headache,
dizziness and intoxication. Ingestion may cause irritation of the gastrointestinal tract, vomiting and diarrhoea. May cause irritation to the mouth and throat.

Sensitisation :Not known.
Chronic effects :None known.
Carcinogenicity :Not known.
Mutagenicity : Not known.
Teratogenic properties: Not known.
Reproductive toxicity : Not known

CAS-107-98-2 : 1-methoxy-2-propanol
No data available.

Information on the likely routes of exposure
No data available.

Symptoms related to the physical, chemical and toxicological characteristics
No data available.

Delayed and immediate effects and also chronic effects from short and long term exposure
No data available.

Numerical measures of toxicity (such as acute toxicity estimates)
No data available.

Interactive effects
No data available.

Where specific chemical data are not available
No data available.

Mixture versus ingredient information
No data available.

Other information
No data available.

12 Ecological information

Toxicity
Components:

CAS-1310-73-2: sodium hydroxide
Toxicity : No information available.

CAS-5064-31-3 :Trisodium Nitrilotriacetate
Toxicity to fish
LC50 (96 h) > 100 mg/l, Pimephales promelas (APHA 1971, Flow through.)
The statement of the toxic effect relates to the analytically determined concentration. Literature data.

Aquatic invertebrates EC50 (96 h) 98 mg/l, Gammarus sp. (Flow through.)
The statement of the toxic effect relates to the analytically determined concentration.

Microorganisms/Effect on activated sludge
Toxicity to microorganisms
static
bacterium/EC50 (8 h): 3,200 - 5,600 mg/l
The details of the toxic effect relate to the nominal concentration. Literature data.

CAS-68515-73-1: Decyl Glucoside
Toxicity to fish:
LC50 > 100 mg/l, Brachydanio rerio (DIN EN ISO 7346-2)

Aquatic invertebrates:
EC50 > 100 mg/l, Daphnia magna (OECD Guideline 202, part 1)

Aquatic plants:
EC50 > 10 - 100 mg/l, Scenedesmus subspicatus (Directive 88/302/EEC, part C, p. 89)

Microorganisms/Effect on activated sludge:
EC0 > 100 mg/l, Pseudomonas putida (OECD Guideline 209)
EC0 > 100 mg/l, Pseudomonas putida (DIN 38412 Part 8)

Chronic toxicity to fish: No observed effect concentration > 1 - 10 mg/l, Brachydanio rerio (OECD Guideline 204)
Chronic toxicity to aquatic invertebrates: No observed effect concentration > 1 - 10 mg/l, Daphnia magna (OECD Guideline 202, part 2)

CAS-111-76-2 : 2-Butoxyethanol
Acute aquatic,
fish (Oncorhynchus mykiss Duration) :
LC50 (96h) :1,474 mg/l (OECD 203)

algae (Pseudokirchneriella subcapitata Duration):
EC50 (OECD 201): 1,840 mg/l

Daphnia (Daphnia magna Duration):
EC50 (OECD 202) : 1,550 mg/l (48h)

Other ecotoxicological information
Fish
Chronic toxicity: NOEC (21 d) > 100 mg/l, Brachydanio rerio

Crustaceans
Chronic toxicity: NOEC (21 d) 100 mg/l, Daphnia magna (OECD Guideline 211)

CAS-107-98-2 : 1-methoxy-2-propanol
Toxicity to fish : LC50 (Salmo salar (Atlantic salmon)): >= 1,000 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 25,900 mg/l
Exposure time: 48 h

Toxicity to algae : (Chlorella pyrenoidosa): > 1,000 mg/l
Exposure time: 7 d
Test Type: Growth inhibit

Persistence and degradability

Components:

CAS-1310-73-2: sodium hydroxide
Biodegradability :The methods for determining the biological degradability are not applicable to inorganic substances.

CAS-5064-31-3 :Trisodium Nitrilotriacetate
Elimination information: 90 - 100 % BOD of the ThOD (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C

CAS-68515-73-1: Decyl Glucoside
Assessment biodegradation and elimination (H2O): Readily biodegradable (according to OECD criteria).

CAS-111-76-2 : 2-Butoxyethanol
Persistence and degradability description :Easily biodegradable.
Persistence and degradability: BOD5/COD: 0.32-0.76
B OD: 96% after 14 d (MITI)
9 5% degraded after 28 d, OECD 301E

CAS-107-98-2 : 1-methoxy-2-propanol
No data available

Bioaccumulative potential
No other relevant information available

Mobility in soil
No other relevant information available

Other adverse effects
None

13 Disposal considerations

Disposal methods

Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials: Avoid release to the environment.

14 Transport information

UN Number
DOT, ADR, ADN, IMDG, IATA : Not Regulated

UN Proper Shipping Name
DOT, ADR, ADN, IMDG, IATA : Not Regulated

Transport hazard class(es)
DOT, ADR, ADN, IMDG, IATA : Not Regulated

Packing group, if applicable
DOT, ADR, ADN, IMDG, IATA : Not Regulated

Environmental hazards
Marine pollutant : no

Special precautions for user
DOT, ADR, ADN, IMDG, IATA : Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable

15 Regulatory information

Safety, health and environmental regulations specific for the product in question
Not established.

16 Other information

Other information
Abbreviations and acronyms:
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent