

## MATERIAL SAFETY DATA SHEET

### Max Optimize

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

##### 1.1. Product identifier

Product form:	Substance
Trade name:	Max Optimize
Product group:	Substance

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

Main use category:	Professional use
Industrial/Professional use spec:	For professional use only
Use of the substance/mixture:	Chemical intermediate
Function or use category:	Industrial use only

##### 1.2.2. Uses advised against

No additional information available

##### 1.3. Details of the supplier of the safety data sheet

Distributor:	Tierra Products ApS
Address:	Bybækvej 20 DK-7120 Vejle Øst Denmark
E-mail:	info@tierraproducts.com
Website	www.tierraproducts.com

##### 1.4. Emergency telephone number

Emergency number	+45 32 185 744
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#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

**Flammable liquids** : Not classified  
**Skin irritation** : Category 3  
**Eye irritation** : Category 2B  
**Carcinogenicity** : Not classified  
**Reproductive toxicity** : Not classified  
**Specific target organ toxicity - single exposure** : Not classified  
**Aspiration hazard** : Not classified Acute  
**Oral Toxicity** : Category 5

## 2.2. Label elements

### Hazard pictograms :



**Signal Word :** Warning

**Hazard Statements :** May be harmful if swallowed. Causes skin mild irritation. Causes eye irritation.

**Precautionary Statements : Prevention:** Observe good industrial hygiene practices.

**Response:** IF SWALLOWED: USA Immediately call the National POISON CENTER at 800-222-1222. OUT SIDE USA Immediately call poison center or doctor. DO NOT induce vomiting. IF ON SKIN, Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED, Remove to fresh air and keep comfortable for breathing. If not breathing give artificial respiration. DO NOT use mouth to mouth resuscitation without proper protection. IF IN EYES rinse cautiously with water for at least 15 minutes. SAFETY DATA SHEET Sodium Bicarbonate 2 / 9 IF ON CLOTHING, Take off contaminated clothing. Stop leaks if safe to do so. See section 6 for proper clean up. Storage: Store in a well-ventilated place, Keep container tightly closed when not in use. Disposal: Dispose of content and/ container in accordance with local, regional, national and/or international regulations.

## 2.3. Other hazards

Irritation to the respiratory system

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Chemical Names	CAS #.	Concentration%	Other Identifiers
Sodium Bicarbonate	144-55-8 99	100%	Baking Soda

### 3.2. Mixtures

Not applicable

## Section 4: First aid measures

### 4.1. Description of first aid measures

**First-aid measures general:** Get medical advice/attention if you feel unwell. If medical advice is needed, have product container or label at hand. Never give anything by mouth to an unconscious person. If unconscious place in recovery position and seek medical advice.

**First-aid measures after inhalation:** Use adequate ventilation and dust masks.

**First-aid measures after skin contact:** Not required.

**First-aid measures after eye contact:** Recommended safety goggles but not required.

**First-aid measures after ingestion:** Call a poison center or a doctor if you feel unwell.

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

**Symptoms/effects:** Not expected to present a significant hazard under anticipated conditions of normal use.

**Symptoms/effects after inhalation:** Inhalation may cause irritation (cough, short breathing, difficulty in breathing).

**Symptoms/effects after skin contact:** Dust may cause irritation in skin folds or by contact in combination with tight clothing. May cause an allergic skin reaction.

**Symptoms/effects after eye contact:** May cause eye irritation. Dust from this product may cause eye irritation.

**Symptoms/effects after ingestion:** May be harmful if swallowed.

### 4.3. Indication of any immediate medical attention and special treatment needed Immediate / special treatment:

Treat symptomatically.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

Carbon dioxide, dry chemical powder or appropriate foam. Use water to keep non-leaking, fire-exposed containers cool.

### 5.2. Special hazards arising from the substance or mixture

**Fire hazard:** May form combustible dust concentrations in air.

**Explosion hazard:** No data available on direct explosion hazard. No data available on indirect explosion hazard.

**Hazardous decomposition products in case of fire:** Toxic fumes may be released.

### 5.3. Advice for fire-fighters

**Precautionary measures fire:** Keep container closed when not in use.

**Firefighting instructions:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Protection during firefighting:** 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

Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Increase ventilation to area or move container to a well-ventilated and secure area. Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. Before entry, especially into confined areas, check atmosphere with an appropriate monitor.

#### 6.1.1. For non-emergency personnel

**Protective equipment:** Wear recommended personal protective equipment.

**Emergency procedures:** Ventilate spillage area.

#### 6.1.2. For emergency responders

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

**Emergency procedures:** Evacuate unnecessary personnel. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Stop leak if safe to do so. Use grounded electrical/mechanical equipment. Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Contain the discharged material. If sweeping of a contaminated area is necessary use a dust suppressant agent. Report spills to local health, safety and environmental authorities, as required.

### 6.4. Reference to other sections

For further information refer to section 13.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

#### Handling requirements:

Keep formation of airborne dusts to a minimum. Do not breathe dust; do not get in eyes, on skin, or on clothing. Use only with adequate ventilation. Wash thoroughly after handling. See Section 8 for personal protective equipment

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Keep container tightly closed. Store in a well-ventilated area.

**Suitable packaging:** Store in original sealed bag. Keep container closed when not in use.

### 7.3. Specific end use(s)

**Specific end use(s):** Use within 2 years of date of manufacture.

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

**Workplace exposure limits:** No data available.

#### DNEL/PNEC Values

**DNEL / PNEC:** No data available.

### 8.2. Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area. Ensure all engineering measures mentioned in section 7 of SDS are in place.

**Personal protective equipment:** Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL, suitable respiratory protection must be worn

**Respiratory protection:** If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL, suitable respiratory protection must be worn. Respirator type: High-efficiency particulate respirator with full facepiece.

**Hand protection:** Wear protective gloves. type of material PVC: polyvinyl chloride, NR: natural rubber, latex

**Eye protection:** Use safety goggle with side protection. EN166.

**Skin protection:** Wear suitable protective clothing

**Other protection measures:** Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

**Respiratory protection:** In case of insufficient ventilation, wear suitable respiratory equipment. P3 (filters at least 99,95 % of airborne particles, color code: White).

**Environmental exposure controls:** Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Physical state:** Powder

**Appearance:** Powder. Granulate.

**Colour:** White

**Odour:** Odorless.

**Odour threshold:** No data available

**pH:** 8,6

**Melting point:** 270° C

**Freezing point:** Not applicable

**Boiling point:** No data available

**Flash point:** Not applicable

**Auto-ignition temperature:** Not applicable

**Decomposition temperature:** No data available

**Flammability (solid, gas):** Non flammable.

**Vapour pressure:** No data available

**Relative density:** No data available

**Solubility:** Insoluble

**Partition coefficient**

**n-octanol/water (Log Pow):** No data available

**Viscosity, kinematic:** Not relevant (solid matter)

**Viscosity, dynamic:** No data available

**Explosive properties:** No data available

**Oxidising properties:** No data available

**Explosive limits:** Not applicable

### 9.2. Other information

No additional information available

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** This material is not reactive under normal conditions.

### 10.2. Chemical stability

The product is chemically stable under standard ambient conditions (room temperature)

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** No known hazardous reactions.

### 10.4. Conditions to avoid

Exposure to moisture

### 10.5. Incompatible materials

No data available.

### 10.6. Hazardous decomposition products

In the event of fire: see section 5

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

**Acute toxicity (oral):** Not classified

**Acute toxicity (dermal):** Not classified

**Acute toxicity (inhalation):** May cause irritation of the respiratory tract.

**Additional information:** No data available

**Skin corrosion/irritation:** No adverse effects expected.

**Serious eye damage/irritation:** May cause mechanical irritation if exposed to large amounts of dust.

**Respiratory or skin sensitisation:** Not classified

**Germ cell mutagenicity:** Not classified

**Carcinogenicity:** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**Reproductive toxicity:** Not classified

**Additional information:** No data available

**STOT-single exposure:** Not classified

**Additional information:** No data available

**STOT-repeated exposure:** Not classified

**Aspiration hazard:** Not classified

**Potential adverse human health effects and symptoms:** No data available.

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

## Section 12: Ecological information

### 12.1. Toxicity

**Ecology - general:** Not toxic

**Hazardous to the aquatic environment, short-term (acute):** Not classified

**Hazardous to the aquatic environment, long-term (chronic):** Not classified

**Additional information:** No data available.

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

### 12.6. Other adverse effects

**Additional information:** Avoid release to the environment.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

#### Waste treatment-relevant information

Recycling/reclamation of other inorganic materials.

#### Sewage disposal-relevant information

Do not empty into drains. Please consider the relevant national or regional provisions.

#### Waste treatment of containers/packaging's

This material does not require special disposal method. However spent material may be contaminated with the absorbed products and may require special disposal methods. Consult with appropriate regulatory authorities.

### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

## Section 14: Transport information

### 14.1 UN number:

not subject to transport regulations

### 14.2 UN proper shipping name:

not relevant

### 14.3 Transport hazard class(es) Class:

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### 14.4 Packing group:

not assigned to a packing group

### 14.5 Environmental hazards:

none (non-environmentally hazardous acc. to the dangerous goods regulations)

### 14.6 Special precautions for user:

There is no additional information.

### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:

The cargo is not intended to be carried in bulk.

### Information for each of the UN Model Regulations

#### • Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

Not subject to ADR, RID and ADN.

#### • International Maritime Dangerous Goods Code (IMDG)

Not subject to IMDG.

#### • International Civil Aviation Organization (ICAO-IATA/DGR)

Not subject to ICAO-IATA.

## Section 15: Regulatory information

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

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### 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

#### 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

Date: 07-11-2024

Version: 01.02/EU-DK

### Classification according to Regulation (EC) No. 1272/2008 [CLP]:

Not classified

### 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.