

According to Regulation (EC) No 1907/2006

# GR EXTRA

Version number: 5.1  
Issued: 2026-06-17  
Replaces SDS: 2021-10-01



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

### 1.1. Product identifier

**Trade name**

GR EXTRA

**UFI code**

VSS7-M0CQ-HN0A-E7DG

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

**Relevant identified uses**

Dish detergent for professional users.

**Not suitable for use in**

All other uses are discouraged.

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

**Supplier**

KLEEN PURGATIS GmbH

Address

Dieselstraße 10  
32120 Hiddenhausen  
Germany

Telephone

+49 (0) 5223 9970-40

Email

info@kleen-purgatis.de

Web site

www.kleenpurgatis.de

**Contact person**

Regulatory Affairs

**Email**

info@kleen-purgatis.de

### 1.4. Emergency telephone number

+49 (0)551 - 19240 (GIZ-Nord)

**Available outside office hours**

Yes

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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

#### Classification

Skin corrosion, hazard category 1A

#### Hazard statements

H314

### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

#### Hazard pictograms



#### Signal word

Danger

#### Hazard statements

H314 Causes severe skin burns and eye damage.

#### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P260 Do not breathe dust.

P280 Wear protective gloves/eye protection.

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

#### More information

Hazard components for labeling:  
sodium hydroxide, disodium metasilicate

### 2.3. Other hazards

This mixture does not contain any substances that are classified as PBT or vPvB according to Article 57 / Annex XIII of the REACH regulation.

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## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

| Chemical name         | CAS No.<br>EC No.<br>REACH No.<br>Index No.                     | Concentration | Classification              | H-phrases<br>M factor acute<br>M factor chronic | Specific concentration limits<br>ATE                                                                                                                   | Note |
|-----------------------|-----------------------------------------------------------------|---------------|-----------------------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| sodium hydroxide      | 1310-73-2<br>215-185-5<br>01-2119457892-27-xxxx<br>011-002-00-6 | >50 - <80%    | Skin Corr. 1A               | H314<br>-<br>-                                  | Skin Corr. 1A, H314:<br>C ≥ 5%<br>Skin Corr. 1B, H314:<br>2% ≤ C < 5%<br>Skin Irrit. 2, H315:<br>0.5% ≤ C < 2%<br>Eye Irrit. 2, H319:<br>0.5% ≤ C < 2% | -    |
| sodium carbonate      | 497-19-8<br>207-838-8<br>01-2119485498-19-xxxx<br>011-005-00-2  | 20 - 50%      | Eye Irrit. 2                | H319<br>-<br>-                                  |                                                                                                                                                        |      |
| disodium metasilicate | 6834-92-0<br>229-912-9<br>01-2119449811-37-xxxx<br>014-010-00-8 | 1 - 5%        | Skin Corr. 1B,<br>STOT SE 3 | H314, H335<br>-<br>-                            |                                                                                                                                                        |      |

#### Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Description of first aid measures

First responders: Pay attention to self-protection.

#### Inhalation

Take the victim into fresh air. If symptoms persist, call a physician.

#### Skin contact

In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention immediately if irritation develops and persists.

#### Eye contact

Call a physician immediately. In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

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## Ingestion

Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting. Get medical attention immediately.

## Information for doctors

For specialist advice physicians should contact the Poisons Information Service.

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

Immediate effects can be expected after long-term exposure.

## Inhalation

Not applicable.

## Skin contact

Causes burns.

## Eye contact

May cause irreversible eye damage.

## Ingestion

If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

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

Treat symptomatically.

Show this safety data sheet to the doctor in attendance.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

The product is not flammable. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray, dry powder, foam, carbon dioxide (CO<sub>2</sub>).

#### Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

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

Hazardous decomposition products formed under fire conditions.

Corrosive.

### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighters

In the event of fire, wear self contained breathing apparatus.

### Other

#### Other

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment. Ensure adequate ventilation, especially in confined areas.  
Evacuate unaffected personnel from the spill area.

### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

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

Use mechanical handling equipment. Rinse off residues with water.

### 6.4. Reference to other sections

For information on storage and handling see section 7.

For information on exposure and personal protective equipment, see Section 8.

For information on incompatible materials, see Section 10.

For information on disposal see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Preventive handling precautions

Wear personal protective equipment. Avoid direct contact with the material / product. Ensure adequate ventilation, especially in confined areas.

#### General hygiene

When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

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

Keep away from food, drink and animal feeding stuffs. Store in a place accessible by authorized persons only.

Storage class according to TRGS 510: 8B (non-flammable, corrosive hazardous substances)

Store in original container. Storage temperature: 10 °C to 40 °C

### 7.3. Specific end use(s)

PC35 - Washing and cleaning products (including solvent based products)

See section 1.2: Dish detergent

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### DNEL/DMEL

| Product/Substance name<br>(CAS No./EC No.)     | Type | Exposure                          | Value                  | Population | Effects  |
|------------------------------------------------|------|-----------------------------------|------------------------|------------|----------|
| disodium metasilicate<br>(6834-92-0/229-912-9) | DNEL | Chronic (long term)<br>Inhalation | 6.22 mg/m <sup>3</sup> | Workers    | Systemic |
| disodium metasilicate<br>(6834-92-0/229-912-9) | DNEL | Chronic (long term)<br>Dermal     | 1.49 mg/kg             | Workers    | Systemic |
| disodium metasilicate<br>(6834-92-0/229-912-9) | DNEL | Chronic (long term)<br>Oral       | 0.74 mg/kg             | Consumers  | Systemic |
| sodium carbonate<br>(497-19-8/207-838-8)       | DNEL | Chronic (long term)<br>Inhalation | 10 mg/m <sup>3</sup>   | Workers    | Local    |
| sodium hydroxide<br>(1310-73-2/215-185-5)      | DNEL | Chronic (long term)<br>Inhalation | 1 mg/m <sup>3</sup>    | Workers    | Local    |
| sodium hydroxide<br>(1310-73-2/215-185-5)      | DNEL | Chronic (long term)<br>Inhalation | 1 mg/m <sup>3</sup>    | Consumers  | Local    |

#### PNEC/PEC

| Product/Substance name<br>(CAS No./EC No.)     | Type | Environmental compartment | Value    |
|------------------------------------------------|------|---------------------------|----------|
| disodium metasilicate<br>(6834-92-0/229-912-9) | PNEC | Freshwater                | 7.5 mg/l |
| disodium metasilicate<br>(6834-92-0/229-912-9) | PNEC | Marine water              | 1 mg/l   |
| disodium metasilicate<br>(6834-92-0/229-912-9) | PNEC | Sewage Treatment Plant    | 1 g/l    |

### 8.2. Exposure controls

#### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

#### Eye / face protection

Chemical-resistant safety glasses with side protection conforming to EN166.

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## **Hand protection**

Chemical-resistant protective gloves (EN 374)

Suitable material: Butyl (butyl rubber) or NBR (nitrile rubber), category III according to EN 374.

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

## **Other skin protection**

Not applicable

## **Respiratory protection**

This type of personal protective equipment is not necessary under normal and foreseeable use of the product.

## **Thermal hazards**

Not applicable

## **SECTION 9: Physical and chemical properties**

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

#### **Physical state**

Granulat

#### **Colour**

white

#### **Odour**

characteristic

#### **Odour threshold**

Not determined for the mixture.

#### **Melting point / freezing point**

Not determined for the mixture.

#### **Boiling point or initial boiling point and boiling range**

Not determined for the mixture.

#### **Flammability**

Not applicable.

#### **Lower and upper explosion limit**

Not applicable.

#### **Flash point**

No data available

#### **Auto-ignition temperature**

Not determined for the mixture.

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## **Decomposition temperature**

Not determined for the mixture.

## **pH**

12.2

## **Method**

1 % aqueous solution

## **Kinematic viscosity**

Not determined for the mixture.

## **Viscosity, dynamic**

Not determined for the mixture.

## **Solubility**

Water soluble

## **Water solubility**

miscible

## **Partition coefficient n-octanol/water**

Not determined for the mixture.

## **Vapour pressure**

Not applicable.

## **Density and/or relative density**

1130 kg/m<sup>3</sup>

## **Method**

Bulk density

## **Relative vapour density**

Not determined for the mixture.

## **Evaporation Rate**

Not determined for the mixture.

## **Explosive properties**

The product / mixture has no explosive properties.

## **Oxidising properties**

The product / mixture has no oxidizing properties.

## **VOC %**

0%

## **Particle characteristics**

This product / mixture does not contain any nanomaterials or nanoforms as defined in Regulation (EC) 1907/2006.

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## 9.2. Other information

Conductivity: 40,8 mS/cm

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable at normal conditions

### 10.2. Chemical stability

The product is chemically stable.

### 10.3. Possibility of hazardous reactions

None under normal use.

### 10.4. Conditions to avoid

Protect from frost, heat and sunlight.

Protect from moisture.

### 10.5. Incompatible materials

Strong acids

Light metals

Oxidizing agent

### 10.6. Hazardous decomposition products

For information on combustion products, see Section 5.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicology data for the components

#### Acute toxicity

Based on the available data, the classification criteria are not met.

| Product / Substance name<br>CAS / EC no.       | Dose descriptor | Value / Dose                          | Exposure route | Test animals |
|------------------------------------------------|-----------------|---------------------------------------|----------------|--------------|
| sodium hydroxide<br>1310-73-2 / 215-185-5      | LD50            | = 325 mg/kg bw                        | Oral           | rabbit       |
| disodium metasilicate<br>6834-92-0 / 229-912-9 | LD50            | 1.150 - 1.350mg/kg<br>770 - 820 mg/kg | Oral           | rat<br>mouse |
| sodium carbonate<br>497-19-8 / 207-838-8       | LD50            | 2.800 mg/kg                           | Oral           | rat          |

#### Skin corrosion/irritation

Skin corrosion, hazard category 1A

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## Serious eye damage/irritation

May cause irreversible eye damage.

## Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

## Carcinogenicity

Based on the available data, the classification criteria are not met.

## Reproductive toxicity

Based on the available data, the classification criteria are not met.

## STOT-single exposure

Based on the available data, the classification criteria are not met.

## STOT-repeated exposure

Based on the available data, the classification criteria are not met.

## Aspiration hazard

Based on the available data, the classification criteria are not met.

### 11.2. Information on other hazards

#### Endocrine disrupting properties

The mixture / product does not contain any ingredients with endocrine disrupting properties in terms of regulations (EC) 1907/2006 and (EU) 2018/605 and the delegated regulation (EU) 2017/2100.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Acute fish toxicity

| Product / Sub-<br>stance name<br>CAS / EC no.        | Measurement type | Value / Result    | Duration of<br>exposure | Endpoint of the<br>test | Species                |
|------------------------------------------------------|------------------|-------------------|-------------------------|-------------------------|------------------------|
| disodium<br>metasilicate<br>6834-92-0 /<br>229-912-9 | LC50             | 210 mg/l          | 96h                     | -                       | Brachydanio rerio      |
| sodium carbonate<br>497-19-8 /<br>207-838-8          | LC50             | 300 mg/l          | 96h                     | -                       | Lepomis<br>macrochirus |
| sodium hydroxide<br>1310-73-2 /<br>215-185-5         | LC50             | = 35 - = 189 mg/L | -                       | Mortality               | Fish                   |

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**Acute algae toxicity**

| Product / Sub-<br>stance name<br>CAS / EC no.        | Measurement type | Value / Result | Duration of<br>exposure | Endpoint of the<br>test | Species                  |
|------------------------------------------------------|------------------|----------------|-------------------------|-------------------------|--------------------------|
| disodium<br>metasilicate<br>6834-92-0 /<br>229-912-9 | EC50             | 207 mg/l       | 72h                     | -                       | Chlorella<br>pyrenoidosa |
| sodium carbonate<br>497-19-8 /<br>207-838-8          | EC50             | > 800 mg/L     | 72 hours                | Growth rate             | Algae                    |

**Acute crustacean toxicity**

| Product / Sub-<br>stance name<br>CAS / EC no.        | Measurement type | Value / Result | Duration of<br>exposure | Species            | Remark |
|------------------------------------------------------|------------------|----------------|-------------------------|--------------------|--------|
| sodium carbonate<br>497-19-8 /<br>207-838-8          | EC50             | 200-227 mg/l   | 48h                     | Ceriodaphnia dubia | -      |
| sodium hydroxide<br>1310-73-2 /<br>215-185-5         | EC50             | 40,4 mg/l      | 48 h                    | Ceriodaphnia dubia | ECHA   |
| disodium<br>metasilicate<br>6834-92-0 /<br>229-912-9 | EC50             | 1.700 mg/l     | 48h                     | Daphnia magna      | -      |

**Micro-/macro organism toxicity**

| Product / Substance<br>name<br>CAS / EC no.    | Measurement type | Value / Result | Duration of exposure | Species                        |
|------------------------------------------------|------------------|----------------|----------------------|--------------------------------|
| disodium metasilicate<br>6834-92-0 / 229-912-9 | EC50             | >100 mg/l      | 3h                   | Bacteria<br>(activated sludge) |

**12.2. Persistence and degradability**

No information available

**Decay/transformation**

No information available

**12.3. Bioaccumulative potential**

No data available

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## 12.4. Mobility in soil

### Mobility

No information available

## 12.5. Results of PBT and vPvB assessment

### Results of PBT and vPvB assessment

| Product / Substance name<br>CAS / EC no.       | PBT / vPvB         |
|------------------------------------------------|--------------------|
| disodium metasilicate<br>6834-92-0 / 229-912-9 | Not PBT / Not vPvB |
| sodium carbonate<br>497-19-8 / 207-838-8       | Not PBT / Not vPvB |

## 12.6. Endocrine disrupting properties

The mixture / product does not contain any ingredients with endocrine disrupting properties in terms of regulations (EC) 1907/2006 and (EU) 2018/605 and the delegated regulation (EU) 2017/2100.

## 12.7. Other adverse effects

This product / mixture does not contain any substances within the meaning of Regulation (EC) No. 1005/2009 that deplete the ozone layer.

### Other

#### German Water Class

WGK1 - slightly water endangering

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal considerations

Waste disposal accordance with applicable local/regional/national/international regulations .

#### Packaging

Do not re-use empty containers. Empty containers should be taken for local recycling, recovery or waste disposal. Contaminated packaging: Dispose of as unused product.

| Waste code | Waste description              |
|------------|--------------------------------|
| 07 06 99   | wastes not otherwise specified |

Please note - an asterisk (\*) next to a code denotes that it is HAZARDOUS WASTE.

## SECTION 14: Transport information

### 14.1. UN number

UN 1823

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## 14.2. UN proper shipping name

**ADR / RID / ADN proper shipping name**

SODIUM HYDROXIDE, SOLID

**IMDG proper shipping name**

SODIUM HYDROXIDE, SOLID

## 14.3. Transport hazard class(es)

**Label**

ADR/RID/ADN



**ADR / RID Class**

8

**ADR / RID Classification code**

C6

**ADR / RID hazard identification number**

80

**IMDG Class**

8

**IATA Class**

8

**ADN Class**

8

**ADN Class Code**

C6

## 14.4. Packing group

II

## 14.5. Environmental hazards

**IMDG Marine Pollutant**

No

## 14.6. Special precautions for user

**Special precautions for user**

The usual precautionary measures when handling chemicals must be observed.

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## IMDG EmS

F-A, S-B

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

### Other

#### Additional information ADR-RID

LQ: 1kg

EQ: E2

Transport category (tunnel restriction code): 2 (E)

## SECTION 15: Regulatory information

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

#### EU regulations

Regulation (EC) No. 648/2004 (detergents)

Ingredients according to Annex VII: Not applicable

Regulation (EC) No. 1272/2008 (CLP)

Regulation (EC) No. 1907/2006 (REACH)

Substances subject to authorization according to Annex XIV: No

Substance restrictions according to Annex XVII: No

Substances on the REACH candidate list (SVHC): No

Regulation (EU) No. 528/2012 (BPR)

Active ingredients: not applicable

Regulation (EU) 2019/1148 (explosives)

Restricted raw material according to Annex I: not applicable

Notifiable raw materials according to Annex II: not applicable

Directive 2011/65 / EU (ROHS 2)

Substance restrictions according to Annex II: not applicable

Regulation (EU) 2019/1021 (POP)

Persistent organic pollutants: not applicable

Directive 2012/18/EU (Seveso III)

Seveso hazard category: not applicable

#### National regulations

In addition, comply with all national and local regulations for the handling of chemicals.

#### Other regulations, limitations and legal regulations

Take note of Dir 94/33/EC on the protection of young people at work.

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## 15.2. Chemical safety assessment

The mixture has not been subjected to a safety assessment.

## SECTION 16: Other information

### Changes to previous revision

General update without changes.

### Abbreviations

ADN - European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway  
 ADR - The European Agreement concerning the International Carriage of Dangerous Goods by Road  
 ATE - Acute Toxicity Estimate  
 BCF - Bioconcentration Factor  
 CAS - Chemical Abstracts Service  
 CE - Conformité Européenne (European conformity)  
 CLP - Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
 CSA - Chemical Safety Assessment  
 CSR - Chemical Safety Report  
 DMEL - Derived Minimal Effect Level  
 DNEL - Derived No Effect Level  
 EINECS - European Inventory of Existing Commercial chemical Substances  
 ES - Exposure Scenario  
 EUH statement - CLP-specific Hazard statement  
 EuPCS - European Product Categorisation System  
 EWC - European Waste Catalogue  
 GHS - Globally Harmonized System of Classification and Labelling of Chemicals  
 GWP - Global warming potential  
 IARC - International Agency for Research on Cancer (IARC)  
 IATA - International Air Transport Association  
 IBC - Intermediate Bulk Container  
 IMDG - International Maritime Dangerous Goods  
 LogPow - logarithm of the octanol/water partition coefficient  
 MARPOL - International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" - marine pollution)  
 OECD - Organisation for Economic Co-operation and Development  
 PBT - Persistent, Bioaccumulative and Toxic  
 PNEC - Predicted No Effect Concentration  
 RID - The Regulations concerning the International Carriage of Dangerous Goods by Rail  
 RRN - REACH Registration Number  
 SCL - A specific concentration limit  
 STOT-RE - Specific Target Organ Toxicity - Repeated Exposure  
 STOT-SE - Specific Target Organ Toxicity - Single Exposure  
 SVHC - Substances of Very High Concern  
 TWA - Time weighted average  
 UN - United Nations  
 UVBC - Unknown or variable composition, complex reaction products or of biological materials

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VOC - Volatile Organic Compound  
vPvB - Very Persistent and Very Bioaccumulative

## **References to key literature and data sources**

REACH registration dossiers  
ECHA C&L - Inventory  
Safety data sheets from raw material suppliers

## **Evaluation methods for classification**

Classification for mixtures and used evaluation method according to Article 9 of regulation (EC) 1272/2008 [CLP]:  
Health hazards: calculation method  
Environmental hazards: calculation method

## **Phrase meaning**

Skin Corr. 1A - Skin corrosion, hazard category 1A  
Skin Corr. 1B - Skin corrosion, hazard category 1B  
STOT SE 3 - Specific Target Organ Toxicity — Single exposure, hazard category 3  
Eye Irrit. 2 - Eye irritation, hazard category 2  
H314 Causes severe skin burns and eye damage.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

## **Additional information**

This safety data sheet is prepared in accordance with Commission Regulation (EU) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878.

## **Manufacturer's notes**

Legal disclaimer: The above information is believed to be correct. This company shall not be held liable for any damage resulting from handling or from contact with the above product.