

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 07.11.2019

Version number 1

Revision: 17.02.2019

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

- **1.1 Product identifier**
- **Trade name: FR OD200 LL (3XLLDF013200)**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use**
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
SU12 Manufacture of plastics products, including compounding and conversion
- **Product category** PC32 Polymer preparations and compounds
- **Application of the substance / the mixture** Plastic additive
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
KAFRIT INDUSTRIES (1993) LTD.
KIBBUTZ KFAR-AZA, M.P. NEGEV 85142, ISRAEL
TEL: +972-8-6809845 FAX: +972-8-6809846
CENTRAL e-mail: kafrit@kafrit.co.il
- **Further information obtainable from:** Department: Product safety
- **1.4 Emergency telephone number:** +972-8-6809845

SECTION 2: Hazards identification

- **2.1 Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

Carc. 2 H351 Suspected of causing cancer.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
EG (EC) 1272/2008 – CLP 1.3.4 Metals in massive form, alloys, mixtures containing polymers, mixtures containing elastomers
1.3.4.1 Metals in massive form, alloys, mixtures containing polymers and mixtures containing elastomers do not require a label according to this Annex, if they do not present a hazard to human health by inhalation, ingestion or contact with skin or to the aquatic environment in the form in which they are placed on the market, although classified as hazardous in accordance with the criteria of this Annex.

In the masterbatch, the hazardous substance is surrounded by the polymer, preventing a direct contact with the hazardous substance. For such mixtures, a labelling is not necessary. However, all data, that otherwise should be mentioned on the label, have to be stated in form of this safety data sheet.

A release of the hazardous substance from the mixture through migration to the surface or through abrasion is possible. In this case, the safety regulations described in this safety data sheet apply. Observe the general safety regulations when handling chemicals.

- **Hazard pictograms**



GHS08

- **Signal word** Warning
- **Hazard-determining components of labelling:**
diantimony trioxide

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- **Hazard statements**
H351 Suspected of causing cancer.
- **Precautionary statements**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Additive Concentrate

- **Dangerous components:**

CAS: 1309-64-4 EINECS: 215-175-0 Index number: 051-005-00-X Reg.nr.: 01-2119475613-35	diantimony trioxide	 Carc. 2, H351	10-25%
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- **SVHC** None
- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:**
The usual precautionary measures are to be adhered to when handling chemicals.
- **After inhalation:**
Supply fresh air.
Take affected persons into fresh air and keep quiet.
Seek medical treatment in case of complaints.
- **After skin contact:**
Generally the product does not irritate the skin.
After contact with the molten product, cool rapidly with cold water.
Do not pull solidified product off the skin.
If skin irritation continues, consult a doctor.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
A person vomiting while laying on their back should be turned onto their side.
Rinse out mouth and then drink plenty of water.
If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.

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- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Carbon monoxide and carbon dioxide
Hydrogen bromide (HBr)
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Avoid formation of dust.
Particular danger of slipping on leaked/spilled product.
Wear protective clothing.
- **6.2 Environmental precautions:**
Do not allow to enter sewers/ surface or ground water.
Do not allow to penetrate the ground/soil.
- **6.3 Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to item 13.
Pick up mechanically.
Send for recovery or disposal in suitable receptacles.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Store in cool, dry place in tightly closed receptacles.
Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of dust.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect from heat.
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.

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Store only in the original receptacle.

- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** No further relevant information available.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

CAS: 14807-96-6 Talc (Mg₃H₂(SiO₃)₄) (10-25%)

PEL (USA)	Long-term value: 20 mppcf ppm (containing <1% Quartz)
REL (USA)	Long-term value: 2* mg/m ³ *respirable dust; and <1% Quartz
TLV (USA)	Long-term value: 2* mg/m ³ *as respirable fraction; E

CAS: 1309-64-4 diantimony trioxide (10-25%)

TLV (USA)	Long-term value: NIC-0.02 mg/m ³ inhalable fraction (L)*, *production
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· DNELs

CAS: 1309-64-4 diantimony trioxide

Oral	Long-term - systemic effects, general population	33.5 mg/kg bw/day (General population)
Dermal	Long-term - systemic effects, worker	67 mg/kg bw/day (worker)
	Long-term - systemic effects, general population	33.5 mg/kg bw/day (General population)
Inhalative	Long-term - local effects, worker	0.315 mg/m ³ (worker)
	Long-term - local effects, general population	0.095 mg/m ³ (General population)

· PNECs

CAS: 1309-64-4 diantimony trioxide

PNEC - fresh water	0.135 mg/l (fresh water)
Aquatic compartment - marine water	0.013 mg/l (marine water)
Aquatic compartment - sediment in freshwater	13.4 mg/kg sed dw (sediment fresh water)
Aquatic compartment - sediment in marine water	2.68 mg/kg sed dw (sediment marine water)
terrestrial compartment - soil	44.3 mg/kg dw (Soil)
Sewage treatment plant	3.05 mg/l (Sewage treatment plant (STP))

· **Additional information:** The lists valid during the making were used as basis.

· 8.2 Exposure controls

· Personal protective equipment:

· General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Do not eat, drink, smoke or sniff while working.

· Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

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- **Protection of hands:**



Protective gloves

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Safety glasses (EN 166)

- **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:	Pellets
Colour:	White
Odour:	Product specific
Odour threshold:	Not determined.

- **pH-value:** Not applicable.

- **Change in condition**

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Undetermined.

- **Flash point:** Not applicable.

- **Flammability (solid, gas):** Not determined.

- **Ignition temperature:** Not applicable

- **Decomposition temperature:** 280 °C

- **Auto-ignition temperature:** Product is not selfigniting.

- **Explosive properties:** Product does not present an explosion hazard.

- **Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.

- **Oxidising properties** None

- **Vapour pressure:** Not applicable.

- **Density at 20 °C:** 1.7 g/cm³

- **Relative density** Not determined.

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· Vapour density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with water:	Insoluble.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Solvent content:	
Solids content:	100.0 %
· Other information: MFR (230°C/2.16kg):	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with strong acids and oxidising agents.
- **10.4 Conditions to avoid**
Toxic fumes may be released if heated above the decomposition point.
No special precautions are necessary if used correctly.
- **10.5 Incompatible materials:** Reacts with strong acids and oxidising agents.
- **10.6 Hazardous decomposition products:**
Carbon monoxide and carbon dioxide
Hydrogen bromide (HBr)
- **Additional information:** No further relevant information available.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:		
CAS: 1309-64-4 diantimony trioxide		
Oral	LD50	>20,000 mg/kg (rat)
Dermal	LD50	>8,300 mg/kg (Rabbit)
Inhalative	LC50	>5,200 mg/m ³ (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**

In the masterbatch, the hazardous substance is surrounded by the polymer, preventing a direct contact with the hazardous substance. For such mixtures, a labelling is not necessary. However, all data, that otherwise should be mentioned on the label, have to be stated in form of this safety data sheet.

A release of the hazardous substance from the mixture through migration to the surface or through abrasion is possible. In this case, the safety regulations described in this safety data sheet apply. Observe the general safety regulations when handling chemicals.

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· IARC (International Agency for Research on Cancer)

CAS: 1309-64-4 diantimony trioxide	2B
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· NTP (National Toxicology Program)

None of the ingredients is listed.

· Repeated dose toxicity
CAS: 1309-64-4 diantimony trioxide

Oral	Repeated dose toxicity - NOAEL	1,686 mg/kg/d (rat)
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· CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity**
Suspected of causing cancer.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity
· Aquatic toxicity:
CAS: 1309-64-4 diantimony trioxide

LC50	6.9 mg/l (Fish) 14.4 mg/l (Pimephales promelas)
EC50	>36.66 mg/l (Pseudokirchnerella subcapitata)
NOEC	1.74 mg/l (Daphnia magna) 1.13 mg/l (Fish) 2.11 mg/l (Pseudokirchnerella subcapitata)

- **12.2 Persistence and degradability** Heavily biodegradable
- **Other information:** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** No further relevant information available.
- **Behaviour in sewage processing plants:** The product can be mechanically separated.
- **Additional ecological information:**
- **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
The product may not be released into the environment without control.
The evaluation was performed in accordance with the calculation procedure of the preparation guideline.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

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SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

· **European waste catalogue**

07 02 13	waste plastic
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· **Uncleaned packaging:**

· **Recommendation:**

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR, ADN, IMDG, IATA** Void

· **14.2 UN proper shipping name**

· **ADR, ADN, IMDG, IATA** Void

· **14.3 Transport hazard class(es)**

· **ADR, ADN, IMDG, IATA**

· **Class** Void

· **14.4 Packing group**

· **ADR, IMDG, IATA** Void

· **14.5 Environmental hazards:**

· **Marine pollutant:** No

· **14.6 Special precautions for user** Not applicable.

· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

· **UN "Model Regulation":** Void

SECTION 15: Regulatory information

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

· **Labelling according to Regulation (EC) No 1272/2008**

Observe the general safety regulations when handling chemicals.

EG (EC) 1272/2008 – CLP 1.3.4 Metals in massive form, alloys, mixtures containing polymers, mixtures containing elastomers

1.3.4.1 Metals in massive form, alloys, mixtures containing polymers and mixtures containing elastomers do not require a label according to this Annex, if they do not present a hazard to human health by inhalation, ingestion or contact with skin or to the aquatic environment in the form in which they are placed on the market, although classified as hazardous in accordance with the criteria of this Annex.

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

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- **Seveso category** Void
- **REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)** None
- **LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)** None
- **REGULATION (EC) No 1907/2006 ANNEX XVII** None
- **Regulation (EU) No 649/2012** None

- **National regulations:**

- **Technical instructions (air):**

Class	Share in %
III	10.5
NK	28.2

- **Other regulations, limitations and prohibitive regulations**
- **Substances of very high concern (SVHC) according to REACH, Article 57** None.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

H351 Suspected of causing cancer.

- **Department issuing SDS:** Department: Product Safety

- **Contact:**

KAFRIT Industries (1993) Ltd.
Tel.: +972-8-6809845

- **Abbreviations and acronyms:**

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
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 SVHC: Substances of Very High Concern
 vPvB: very Persistent and very Bioaccumulative
 Carc. 2: Carcinogenicity – Category 2

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