

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

Printing date 25.04.2016

Vers.-no.: 1

Revision: 25.04.2016

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

- **1.1 Product identifier**
- **Trade name: DAP 5553-211**
- **REACH Registration number**  
REACH-registration for preparations is unnecessary. The ingredients are registered or preregistrated.
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use SU12** Manufacture of plastics products, including compounding and conversion
- **Article category AC13** Plastic articles
- **Application of the substance / the mixture** Raw material for plastics
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
SYNRES-ALMOCO BV.  
Hoek van Holland  
The Netherlands  
Tel.No.: ++31(0)174/389999  
Fax.No.: ++31(0)174/389988
- **Further information obtainable from:**  
Plastics Division/QMK  
Phone: ++49 (0)621/5618-359  
Fax: ++49 (0)621/5618-357  
Contact: msds-plastics@raschig.de
- **Emergency telephone number:**  
For Chemical Emergency  
Spill, Leak, Fire, Exposure, or Accident  
Call CHEMTREC Day or Night  
Within USA and Canada: 1-800-424-9300  
Outside USA and Canada: +1 703-527-3887 (collect calls accepted)  
CHEMTREC China: 4001-204937  
CHEMTREC Japan: +(81) 345209637  
CHEMTREC Korea : Local Number: +(82)-070-7686-0086, Toll Free Number: 00-308-13-2549

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **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**  
The product is classified and labelled according to the CLP regulation.

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- **Hazard pictograms**



GHS08

- **Signal word** Warning

- **Hazard-determining components of labelling:**

antimony trioxide

- **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.

P281 Use personal protective equipment as required.

P308 IF exposed or concerned:

P313 Get medical advice/attention.

P405 Store locked up.

P401 Store in accordance with local/regional/national/international regulations.

P402 Store in a dry place.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Additional information:**

No labelling necessary acc. to Annex I, Part 1.3.4.1 REGULATION (EC) No 1272/2008

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**

- **Description:** Diallylphthalate moulding compound

- **Dangerous components:**

CAS: 1309-64-4 EINECS: 215-175-0	antimony trioxide	Carc. 2, H351 Skin Irrit. 2, H315	2.5-<10%
CAS: 1067-53-4 EINECS: 213-934-0	tris(2-methoxyethoxy)vinylsilane	Repr. 2, H361	0.1-≤2.5%

- **SVHC** Does not contain SVHC substances

- **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:** No special measures required.

- **After inhalation:** Supply fresh air.

- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

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- **After eye contact:**  
In case of irritation consult an oculist .  
Rinse opened eye for several minutes under running water.
- **After swallowing:** Rinse out mouth and then drink plenty of water.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **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:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.
- **5.2 Special hazards arising from the substance or mixture**  
Carbon monoxide and carbon dioxide  
Halogenated hydrocarbons  
Danger of forming toxic pyrolysis products.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Do not inhale explosion gases or combustion gases.  
Self-contained respiratory protective device.
- **Additional information**  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Avoid formation of dust.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Dispose contaminated material as waste according to item 13.
- **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**  
Development and deposition of dust has to be avoided.  
Provide suction extractors if dust is formed.
- **Information about fire - and explosion protection:**  
Substance/product is self extinguishing, but can burn when combined with flammable material.  
Protect against electrostatic charges.  
Dust can combine with air to form an explosive mixture.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.

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- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed receptacles.
- **Recommended storage temperature:** At 15 °C to 25 °C
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
Not required.

CAS: 1309-64-4 antimony trioxide

WEL	Long-term value: 0.5 mg/m <sup>3</sup> as Sb
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- **DNELs**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace, currently derivation of DNEL's isn't required in such cases.
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Do not inhale dust.  
Don't smoke
- **Respiratory protection:**  
Use suitable respiratory protective device in case of insufficient ventilation.  
Not necessary if room is well-ventilated.
- **Recommended filter device for short term use:** Filter FFP2
- **Protection of hands:** Protective gloves
- **Material of gloves**  
Nitrile rubber, NBR  
Recommended material strength:  $\geq 0.11$  mm
- **Penetration time of glove material** Penetration time  $\geq 8$  h
- **Eye protection:** Safety glasses
- **Body protection:** Not required

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Granulate
Colour:	Different according to colouring
Odour:	Nearly odourless
- **Change in condition**

Melting point/Melting range:	> 80 °C
Boiling point/Boiling range:	Dec. °C

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· <b>Flash point:</b>	n.a. °C
· <b>Self-igniting:</b>	Product is not selfigniting.
· <b>Density at 20 °C:</b>	~ 1.80 - 2.00 g/cm <sup>3</sup>
· <b>Bulk density at 20 °C:</b>	~ 750 - 900 kg/m <sup>3</sup>
· <b>Solubility in / Miscibility with water:</b>	Insoluble.
· <b>9.2 Other information</b>	No further relevant information available.
· <b>VOC European Union %</b>	0 %

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
Carbon monoxide and carbon dioxide  
Halogenated hydrocarbons  
Danger of forming toxic pyrolysis products.

### 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 antimony trioxide

Oral	LD50	>34600 mg/kg (rat) RTECS, NTIS** National Technical Information Service. (Springfield, VA 22161) Formerly U.S. Clearinghouse for Scientific & Technical Information. OTS0555447
Inhalative	LC50/4h	2305 ppm/4h (rat) mg/kg, Haskell Laboratory 1981 DFG MAK Germany

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Mechanical irritation possible
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Chronic toxicity:**  
Inhalation of the dusts should be avoided as even inert dusts may impair respiratory organ functions.

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**CAS: 1309-64-4 antimony trioxide**

<i>Dermal</i>	<i>LDLo</i>	2000 mg/kg (rat) RTECS, NTIS** National Technical Information Service. (Springfield, VA 22161) Formerly U.S. Clearinghouse for Scientific & Technical Information. OTS0555447
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- **Additional toxicological information:**  
After years of appropriate handling, no health problems have been observed.
- **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 antimony trioxide**

<i>EC10</i>	> 3.5 mg/ltr. ( <i>Pseudomonas putida</i> ) 7 h, IUCLID
<i>EC50</i>	> 1000 mg/ltr. ( <i>Daphnia magna</i> 48 h) External MSDS
<i>IC50</i>	67 mg/ltr. ( <i>Selenastrum capricornutum</i> 72 h) External MSDS
<i>LC50</i>	> 1000 mg/ltr. ( <i>Brachydanio rerio</i> ( Zebrafärbling ), 96h) External MSDS

- **12.2 Persistence and degradability** No further relevant information available.
- **Degree of elimination:**
- **Classification:**  
Not readily biodegradable.  
Due to its low solubility in water the product is almost completely mechanically separated in biological sewage plants.
- **12.3 Bioaccumulative potential** The bioaccumulation potential is considered to be negligible
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **AOX-indication:** The product contains AOX
- **General notes:**  
Do not allow product to reach ground water, water course or sewage system.  
Water hazard class 1 (Self-assessment): slightly hazardous for water ( Germany )  
According to appendix 4 VwVwS ( German regulation )
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation :**  
Disposal considering to the local / regional / national / international regulations. Details have to be arranged with the authority concerned and / or the local waste management enterprise.
- **Uncleaned packaging:**
- **Recommendation:**  
Non contaminated packagings may be recycled.  
Packagings that may not be cleansed are to be disposed of in the same manner as the product.

### SECTION 14: Transport information

- |  |                 |
|--|-----------------|
| · <b>14.1 UN-Number</b>  |                 |
| · <b>ADR, ADN, IMDG, IATA</b>  | Void            |
| · <b>14.2 UN proper shipping name</b>  |                 |
| · <b>ADR, ADN, IMDG, IATA</b>  | Void            |
| · <b>14.3 Transport hazard class(es)</b>   |                 |
| · <b>ADR, ADN, IMDG, IATA</b>  |                 |
| · <b>Class</b>   | Void            |
| · <b>14.4 Packing group</b>  |                 |
| · <b>ADR, IMDG, IATA</b>   | Void            |
| · <b>14.5 Environmental hazards:</b>   |                 |
| · <b>Marine pollutant:</b>   | No              |
| · <b>14.6 Special precautions for user</b>                                       | Not applicable. |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>  | Void            |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **TSCA (Toxic Substances Control Act):**  
All ingredients are listed.
- **Australian Inventory of Chemical Substances**  
All ingredients are listed.
- **SWISS**  
All ingredients are listed.

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- **Japan, ENCS Existing and New Chemical Substance List**

All ingredients are listed.

- **Korea, KECI Korean Existing Chemical Inventory Korea**

All ingredients are listed.

- **Taiwan Toxic Chemical Substances List**

All ingredients are listed.

- **DSL Domestic Substances List, NDSL Non-Domestic Substances List**

All ingredients are listed.

- **Philippines Inventory of Chemicals and Chemical Substances**

All ingredients are listed.

- **NZIoC, New Zealand Inventory of Chemicals**

All ingredients are listed.

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

The product is classified and labelled according to the CLP regulation.

- **Hazard pictograms**



GHS08

- **Signal word** Warning

- **Hazard-determining components of labelling:**

antimony trioxide

- **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.

P281 Use personal protective equipment as required.

P308 IF exposed or concerned:

P313 Get medical advice/attention.

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P401 Store in accordance with local/regional/national/international regulations.

P402 Store in a dry place.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **National regulations:**

- **Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

- **Breakdown regulations:** Breakdown Directive : Not Part of Annex 1 ( German Regulation )

- **Technical instructions (air):**

- **Paragraph : / Class : 5.2.1**

- **Other regulations, limitations and prohibitive regulations**

- **BGV (Employer's Liability Insurance Directives) : (Germany) -**

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- **BG-Device :** ( Germany) Consider BG-device " Static electrification" (Germany)
- **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**

*Full wording of the in point 2 and 3 of the technical data sheets mentioned number codes relevant sentences. These statements are supposed to help the user decodes the contents. The danger guidelines for these products are solely found in point 3 or point 15 of the safety data sheets.*

*H315 Causes skin irritation.*

*H351 Suspected of causing cancer.*

*H361 Suspected of damaging fertility or the unborn child.*

- **Department issuing SDS:**

*Division Plastics/QMK*

*Tel. ++49 (0) 621/5618-359*

*Fax ++49 (0)621/5618-357*

- **Contact:** *msds-plastics@raschig.de*

- **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)*

*ICAO: International Civil Aviation Organisation*

*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)*

*VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)*

*DNEL: Derived No-Effect Level (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*

*Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2*

*Carc. 2: Carcinogenicity, Hazard Category 2*

*Repr. 2: Reproductive toxicity, Hazard Category 2*