



Campine PE 1105768ONA 1000 kg/oct CP3 EX

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

Date of issue: 19/11/2014

Revision date: 21/11/2014

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Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Trade name : Campine PE 1105768ONA 1000 kg/oct CP3 EX
Product code : 100717
Product group : Concentrates

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

1.2.1. Relevant identified uses

Main use category : The preparation is a dispersion of additives in a carrier:,Polyolefine
Use of the substance/mixture : The major use of antimony trioxide (ATO) is as a flame retardant. However, it does not itself have flame retarding properties; instead, it is a synergist for halogenated flame retardants in plastics, paints, adhesives, sealants, rubber and textile back-coatings. Other uses of antimony trioxide include: as a polymerisation catalyst in PET resin manufacture and as a clarifying aid in certain glasses, and in pigments.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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Nijverheidsstraat 2
2340 Beerse - Belgium
T +32(0)14 60 15 11 - F +32(0)14 61 29 85
Hild.VanDeMierop@Campine.be - www.campine.be

1.4. Emergency telephone number

Emergency number : Within USA and Canada: 1-800-424-9300. Outside USA and Canada: +1 703 527 3887 (collect calls accepted). For emergency calls only.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Carc. 2 H351

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Carc.Cat.3; R40
Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Mixtures containing polymers do not require a label, 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.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
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antimony trioxide	(CAS No)1309-64-4 (EC no)215-175-0 (EC index no)051-005-00-X (REACH-no)01-2119475613-35-0000	> 50	Carc.Cat.3; R40
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
antimony trioxide	(CAS No)1309-64-4 (EC no)215-175-0 (EC index no)051-005-00-X (REACH-no)01-2119475613-35-0000	> 50	Carc. 2, H351

Full text of R- and H- phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Take off contaminated clothes. First-aiders should wear suitable personal protective equipment (see section 8) in case of insufficient ventilation or possible skin or eye contact.
- First-aid measures after inhalation : Move the affected person to the fresh air. Seek medical advice.
- First-aid measures after skin contact : In case of contact with the skin : Wash with plenty of soap and water. After contact with molten product, cool skin area rapidly with cold water. Do not pull solidified product away from the skin. Seek medical advice.
- First-aid measures after eye contact : Rinse with water while holding the eyes wide open. Seek medical advice.
- First-aid measures after ingestion : Call in a physician immediately and show him the Safety Data Sheet.

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

No additional information available

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Water. Carbon dioxide (CO₂). Foam.
- Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

- Hazardous decomposition products in case of fire : Carbon oxides (CO, CO₂).

5.3. Advice for firefighters

- Protection during firefighting : Self-contained breathing apparatus.
- Other information : Dispose of fire debris and contaminated fire fighting media in accordance with official regulations. 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

6.1.1. For non-emergency personnel

- Protective equipment : See: Exposure controls and personal protection.
- Emergency procedures : Ensure adequate ventilation. Keep unprotected persons away. Avoid contact with skin, eyes, and clothing - wear suitable protective equipment (see section 8). Avoid breathing in dust- wear suitable protective equipment (see section 8). High risk of slipping if leaked/spilled product is not cleaned up.

6.1.2. For emergency responders

- Protective equipment : See: Exposure controls and personal protection.
- Emergency procedures : Ensure adequate ventilation. Keep unprotected persons away. Avoid contact with skin, eyes, and clothing - wear suitable protective equipment (see section 8). Avoid breathing in dust- wear suitable protective equipment (see section 8). High risk of slipping if leaked/spilled product is not cleaned up.

6.2. Environmental precautions

Do not allow to enter drains or waterways. Do not allow the product to reach the sewage system or any water course. Do not allow the product to penetrate the ground/soil. In case the above cannot be avoided inform responsible authorities. Dispose of spilled material in accordance with the relevant regulations. Burial in an approved hazardous waste landfill is recommended.

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6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : In any case avoid dust formation. Sweep all spilled material or use an appropriate industrial vacuum cleaner. Collect spilled material in suitable containers or closed plastic bags for recovery or disposal. In case of disposal dispose spilled material or contaminated material as waste as described in section 13.
- Other information : High risk of slipping if leaked/spilled product is not cleaned up.

6.4. Reference to other sections

Reference to other sections (8, 13).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure appropriate ventilation/exhaustion at machinery and places where dust and vapor can be generated. Any deposit of dust which cannot be avoided must be regularly removed using preferably appropriate industrial vacuum cleaners or central vacuum systems. Waste air is to be released into the atmosphere only when it has passed through suitable dust separators. Waste water generated during the production process or cleaning operations should be collected and should preferably be treated in an on-site waste water treatment plant which ensures efficient removal of antimony. For detailed explanations please check with your supplier.
- Hygiene measures : Do not drink, eat or smoke in the workplace. Provide showers, eye-baths and self-contained breathing apparatus nearby. Wear suitable personal protective equipment (see section 8).

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in well ventilated, dry area.
- Special rules on packaging : Do not store in open, inadequate, mislabeled packaging.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

antimony trioxide (1309-64-4)		
Austria	MAK (mg/m ³)	0,1 mg/m ³ or 0.3 mg/m ³ (as Sb) depending on activity (cfr. website), 8h TWA
Austria	Remark (AT)	http://www.arbeitsinspektion.gv.at/NR/rdonlyres/F173280B-D4FB-44D2-8269-8DB2CB1D2078/0/GKV2011.pdf
Belgium	Local name	Antimony and compounds
Belgium	Limit value (mg/m ³)	0,5 mg/m ³ (as Sb), 8h TWA
Belgium	Remark (BE)	Service public fédéral Emploi, Travail et Concertation sociale - http://www.emploi.belgique.be/WorkArea/showcontent.aspx?id=23914
France	Local name	Antimony and its compounds
France	VLE (mg/m ³)	0,5 mg/m ³ (as Sb), 8h TWA
France	Note (FR)	Institut National de Recherche et de Sécurité - http://www.inrs.fr/accueil/produits/medias/medias/doc/publications.html?refINRS=ED%20984
Germany	Local name	Antimony and its inorganic compounds (inhalable fraction)
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	Not established
Germany	Remark (TRGS 900)	Senate Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area - http://www.dfg.de/en/dfg_profile/statutory_bodies/senate/health_hazards/index.html
Spain	Local name	Antimony and antimony compounds
Spain	VLA-ED (mg/m ³)	0,5 mg/m ³ (as Sb), 8h TWA
Spain	Notes	http://www.insht.es/InshtWeb/Contenidos/Documentacion/TextosOnline/Valores_Limite/Limites2010/LEP%202010%20ActualizadoMayo(1).pdf
United Kingdom	Local name	Antimony and compounds
United Kingdom	WEL TWA (mg/m ³)	0,5 mg/m ³ (as Sb), 8hTWA
United Kingdom	Remark (WEL)	Health and Safety Executive - http://www.hse.gov.uk/pubns/psd/eh40.pdf
Finland	Local name	Antimony and its compounds
Finland	HTP-arvo (8h) (mg/m ³)	0,5 mg/m ³ 8h TWA

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antimony trioxide (1309-64-4)

Finland

Huomautus (FI)

The Ministry of Social Affairs and Health -
<http://pre20090115.stm.fi/hm1113394626349/passthru.pdf>

8.2. Exposure controls

Hand protection	: Wear gloves. Observe the information of the glove manufacturers on permeability and breakthrough times and other workplace requirements. EN388:1994 is recommended. Any dust-tight material (e.g. rubber-dipped cotton, rubber, nitrile, leather) suitable for the type of work (e.g. considering mechanical stress) could be used as material for gloves protecting for exposure to ATO, since ATO is a non-corrosive inorganic substance. Breakthrough times are not relevant because corrosion and diffusion are excluded by the nature of the substance. Gloves should be changed when damaged or according to manufacturer's instructions whatever is the earlier.
Eye protection	: Wear safety glasses. NBN EN 166:2002 is recommended.
Skin and body protection	: Wear overalls and closed footwear.
Respiratory protection	: Use respiratory protection in case of insufficient exhaust ventilation or prolonged exposure. EN149:2001, FFP3(S) is recommended.
Environmental exposure controls	: Avoid release to the environment. For detailed explanations of the risk management measures that adequately control exposure of the environment to the substance please check with your supplier.
Consumer exposure controls	: Wash hands before breaks and after work. Observe the usual precautions for handling chemicals. TLV-TWA value Sb: 0.5 mg/m ³ .

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Granules.
Color	: white.
Odor	: characteristic.
Odor threshold	: No data available
pH	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: > 80 °C
Freezing point	: No data available
Boiling point	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: No data available
Decomposition temperature	: > 270 °C
Flammability (solid, gas)	: No data available
Vapor pressure	: Not applicable
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 2,75 g/cm ³
Solubility	: Insoluble.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

No additional information available

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10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No hazardous reactions when stored and handled according to prescribed instructions.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No decomposition if used as intended.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Campine PE 1105768ONA 1000 kg/oct CP3 EX	
LD50 oral rat	> 2000 mg/kg

antimony trioxide (1309-64-4)	
LD50 oral rat	> 20000 mg/kg (Fleming, 1938; Gross et al, 1955; Weil et al, 1987)
LD50 dermal rabbit	> 8300 mg/kg (Gross et al, 1955)
LC50 inhalation rat (mg/l)	5200 mg/m ³ (Leuschner, 2006)

Skin corrosion/irritation : Not classified (Not irritating)
pH: Not applicable

Serious eye damage/irritation : Not classified (Not irritating)
pH: Not applicable

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Suspected of causing cancer.

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

antimony trioxide (1309-64-4)	
NOAEL (oral,rat,90 days)	1686 mg/kg bodyweight/day (Hext et al, 1999)

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : The product can be separated out mechanically. Do not allow to enter ground water, waterways or waste water undiluted or in large quantities.

antimony trioxide (1309-64-4)	
LC50 fish 1	< 6,9 mg/l Marine fish [Pagrus major], 96h (Takayanagi, 2001)
LC50 other aquatic organisms 1	1,77 mg/l Invertebrates [Chlorohydra viridissimus], 96h (TAI, 1990)
LC50 fish 2	14,4 mg/l Freshwater fish [Pimephales promelas], 96h (Brooke et al, 1986)
ErC50 (algae)	> 36,6 mg/l [Pseudokirchneriella subcapitata], 72h (Heijerick et al, 2004)
ErC50 (other aquatic plants)	> 25,5 mg/l [Lemna minor], 4d (Brooke et al, 1986)
NOEC (chronic)	1,74 mg/l Invertebrates [Daphnia magna], 21d (Heijerick et al, 2003)
NOEC chronic fish	1,13 mg/l [Pimephales promelas], 28d (Kimball, 1987)
NOEC chronic algae	2,11 mg/l [Pseudokirchneriella subcapitata], 72h (Heijerick et al, 2004)
For an overview of PNECs, check section 8.1.2 and for more information on how the environmental classification was derived, contact your supplier.	

12.2. Persistence and degradability

antimony trioxide (1309-64-4)	
Persistence and degradability	Whereas antimony formally meets the criterion for persistence based on the absence of any degradation, this criterion is considered not to be applicable to inorganic elements. In addition, under conditions of a standard EUSES lake and the median partition coefficient for suspended matter, antimony meets the criteria for rapid removal from the water column.

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12.3. Bioaccumulative potential

antimony trioxide (1309-64-4)	
Bioaccumulative potential	Antimony does not meet the criteria for bioaccumulation: a BCF for aquatic organisms of 40 and a BSAF of 1 for earthworms are derived, and are all much lower than the threshold of 2,000 l/kg. Also, there is evidence to support that antimony does not biomagnify in the food chain. Therefore, antimony is not considered bioaccumulative (B) or very bioaccumulative (vB) based on the definitive criteria.

12.4. Mobility in soil

antimony trioxide (1309-64-4)	
Mobility in soil	2,07 log Kp

12.5. Results of PBT and vPvB assessment

Component	
(31570-04-4)	This substance/mixture does not meet the PBT criteria of REACH, annex XIII This substance/mixture does not meet the vPvB criteria of REACH, annex XIII
antimony trioxide (1309-64-4)	This substance/mixture does not meet the PBT criteria of REACH, annex XIII This substance/mixture does not meet the vPvB criteria of REACH, annex XIII The PBT and vPvB criteria of Annex XIII to the Regulation do not apply to inorganic substances, such as antimony and its inorganic compounds. However, the available data have been compared to the criteria: See 12.2 for (P) and 12.3 for (B). For (T): Chronic NOEC values are available for fish, invertebrates and algae (see Section 12). The lowest NOEC is 1.13 mg Sb/L for fish (Kimball, 1978). Antimony and antimony compounds do not meet any of the toxicity criteria based on carcinogenicity, mutagenicity or reprotoxicity (cfr section 11 of this eSDS) and there is no evidence of other chronic concerns. Therefore, antimony is not considered toxic (T) based on the definitive criteria.

12.6. Other adverse effects

Other adverse effects	: (Di)antimony trioxide is not expected to contribute to ozone depletion, ozone formation, global warming or acidification. : Do not allow to enter ground water, waterways or waste water undiluted or in large quantities.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements. The used packing is only meant for packing this product. After usage empty the packing completely.
Additional information	: The used packing is only meant for packing this product. After usage empty the packing completely.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Other information	: No supplementary information available.
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14.6. Special precautions for user

14.6.1. Overland transport

No additional information available

14.6.2. Transport by sea

No additional information available

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14.6.3. Air transport

No additional information available

14.6.4. Inland waterway transport

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Contains no REACH candidate substance

Other regulations, restrictions and prohibition regulations : (Di)antimony trioxide is not a SEVESO substance, not an ozone depleting substance and not a persistent organic pollutant.

15.1.2. National regulations

Germany

Water hazard class (WGK) : 1 - slightly hazardous to water

15.2. Chemical safety assessment

A chemical safety assessment has been carried out for Sb₂O₃.

SECTION 16: Other information

Data sources : Data are based on our latest knowledge but do not constitute a guarantee for any specific product features and do not establish a legally valid contractual relationship.

Other information : Campine NV provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. Furthermore, this safety data sheet is made up based on the legal requirements as set by EC 1907/2006 (REACH). Further information received from our suppliers following the time scale as foreseen by REACH and the guidance policies as described in the REACH Implementation. Programs will be added when it becomes available.

Full text of R-, H- and EUH-phrases:

Carc. 2	Carcinogenicity Category 2
H351	Suspected of causing cancer
R40	Limited evidence of a carcinogenic effect

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