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SABIC Innovative Plastics™

MATERIAL SAFETY DATA SHEET

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

Trademark:	LUBRICOMP*
Product Code:	RFL369-NA9E043-0-RDV
Product Description:	Polyamide 66 [CASRN 32131-17-2], flame retardant, glass fiber filled
Product Type:	Commercial Product
Recommended use:	May be used to produce molded or extruded articles or as a component of other industrial products.
Company:	SABIC Innovative Plastics B.V. Plasticslaan 1 P.O. Box 117 4600 AC Bergen op Zoom The Netherlands
Manufacturer:	SABIC Innovative Plastics Ottergeerde 22-28 Raamsdonksveer 4941VM The Netherlands
Emergency Telephone Number:	Bergen op Zoom +31(0)164-292911 (24/24)
E-mail:	webinquiries@sabic-ip.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Skin Contact:	Contact causes skin irritation.
Eye Contact:	Resin particles, like other inert materials, are mechanically irritating to eyes.
Inhalation:	Irritating to respiratory system; avoid inhalation of dusts.
Ingestion:	Pellet ingestion unlikely due to physical form.
Other Information:	Cool skin rapidly with cold water after contact with molten material. Heating can release hazardous gases. Hazardous fumes can also occur in post-processing operations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 99/45/EC unless indicated.

Chemical Name	CAS Number	ELINCS / EINECS-No.:	Weight %	Classification:
Antimony trioxide	1309-64-4	2151750	5-10	Carc. Cat.3;R40

Chemical Name	SABIC Recom.(8 Hr)*	MAC (15 min. TWA)	MAC (8hr TWA)
Antimony trioxide	0.5 mg/m^3 TWA as antimony compounds	not determined	0.5mg/m^3 (as Sb)

4. FIRST AID MEASURES

If Inhalation:	Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If symptoms persist, call a physician.
On skin contact:	Immediately cool the skin by rinsing with cold water after contact with hot material. Wash off immediately with soap and plenty of water. Consult a physician.
On contact with eyes:	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If eye irritation persists, consult a specialist.
On ingestion:	No hazards which require special first aid measures.
Precautions:	Cool molten product on skin with plenty of water. Do not remove solidified product. Do not peel polymer from the skin.

5. FIRE-FIGHTING MEASURES

Autoignition Temperature:	400°C (752°F), estimated.
Explosive Limits	
upper:	Not determined
lower:	Not determined
Suitable Extinguishing Media:	Water spray mist or foam.
Unsuitable extinguishing Media for safety reasons:	Carbon dioxide and dry chemical are not recommended because their lack of cooling capacity may permit re-ignition.
Hazardous decomposition products:	Fire will produce dense black smoke containing hazardous combustion products, carbon oxides, hydrocarbons fragments, hydrogen bromide.
Special Protective Equipment for Firefighters:	In the event of fire, wear self-contained breathing apparatus (NEN-EN137).
Specific Hazards:	Take precautionary measures against static discharges. During processing, dust may form explosive mixture in air. Thermal decomposition can lead to release of irritating gases and vapors.

6. ACCIDENTAL RELEASE MEASURES

Clean up:	Sweep up and shovel into suitable containers for disposal. Do not create a powder cloud by using a brush or compressed air.
Personal Precautions:	See section 8.
Environmental Precautions:	Do not flush into surface water or sanitary sewer system. Should not be released into the environment.

7. HANDLING AND STORAGE

Handling:	Handle in accordance with good industrial hygiene and safety practices. Provide for appropriate exhaust ventilation and dust collection at machinery. Avoid dust formation. All metal parts of the mixing and processing equipment must be earthed.
Storage:	Store in closed container in a dry and cool area. Keep away from heat sources and sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit values:

Antimony trioxide - 1309-64-4

SABIC Recom.(8 Hr)*	0.5 mg/m^3 TWA as antimony compounds
France INRS (VME)	0.5 mg/m^3 Sb
Netherlands OEL - MAC	0.5 mg/m^3 Sb
UK EH40 MEL (TWA)	WEL_TWA: 0.5 mg/m^3 as Sb
Spain - Valores Limite Ambientales - VLE	0.5mg/m^3
Denmark TWA Data - Threshold Limit Values (TLV):	GR: 0.5 mg/m^3 beregnet som Sb
Switzerland SUVA Limit Values at the Workplace Data - Time Weighted Average (TWA):	0.1 mg/m^3 Inhalable dust. Sb
Sweden Threshold Limit Values Data -	0.5 mg/m^3 Total dust. Sb
Norway Exposure Limit Values Data - Threshold Limit Value:	KONS: 0.5 mg/m^3 som Sb; Anm: K
Ireland Exposure Limit Values Data - Time Weighted Average (TWA):	TWA 0.5 mg/m^3 as Sb
Greece - OEL	0.5 mg/m^3 Sb
Finland Exposure Limit Values Data - Time Weighted Average (TWA):	HTP_8: 0.5 mg/m^3 ; HTP_15: 40 mg/m^3 ; HOU: Sb
Italy - OEL	0.5 mg/m^3 Sb

Engineering Measures to Reduce Exposure: In the case of hazardous fumes, wear self contained breathing apparatus. Wear face-shield and protective suit for abnormal processing problems. Handle in accordance with good industrial hygiene and safety practice for diagnostics. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

Hand Protection: Protective gloves should be worn, NEN-EN 374.

Eye Protection: Safety glasses with side-shields. (NEN-EN 165-166).

Respiratory Protection: In the case of hazardous fumes, wear self contained breathing apparatus In case of insufficient ventilation wear suitable respiratory equipment (NEN-EN149)

Body Protection: Long sleeved clothing (NEN-EN 340-369-465).

Hygiene Measures: When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid.
Appearance:	Pellets.
Color:	Varies
Odor:	None
Melting point/range:	Various
Autoignition Temperature:	400°C (752°F) estimated
Vapor Pressure:	Negligible
Water Solubility:	Insoluble
Evaporation Rate:	Negligible
Specific gravity:	>1; (water = 1)
VOC content (%):	Negligible
Explosive Limits	
upper:	Not determined
lower:	Not determined

10. STABILITY AND REACTIVITY

Stability:	Stable under ambient conditions. Hazardous polymerisation does not occur.
Conditions to Avoid:	Avoid temperatures above 320°C. To avoid thermal decomposition, avoid elevated temperatures. Heating can result in the formation of gaseous decomposition products, some of which may be hazardous.
Hazardous Decomposition Products:	Traces of, phenols, alkylphenols, diarylcarbonates, hydrogen bromide, hydrogen fluoride, carbonyl fluoride, perfluorohydrocarbon fragments.

11. TOXICOLOGICAL INFORMATION

LD50/oral/rat:	>5000 mg/kg
LD50/dermal/rabbit:	>2000 mg/kg
Subchronic Toxicity:	No information available
Primary Irritation:	Skin irritation
Remarks:	The toxicological data has been taken from products of similar composition.
Special Studies:	Antimony trioxide: Tested in a chronic inhalation of 45 mg/m^3 by guinea pigs resulted in extensive pneumonitis and fatty degeneration of the liver. Other long-term inhalation studies in rats and rabbits found lipid pneumonitis. One epidemiology study of process workers exposed to antimony metal suggests an increase in lung cancer. Animal studies and epidemiological studies suggests developmental toxicity. Thermal degradation of the fluoropolymer additives in this product may result in the release of pyrolysis products and fumes. Short term inhalation exposure may cause influenza-like symptoms such as chest pain/tightness, shortness of breath, sore throat, fever and chills, malaise and sometimes headache (also known as "polymer fume fever"). Following removal from exposure, complete resolution is expected within 12-48 hours. Prolonged and repeated exposure to high levels may lead to effects such as pulmonary edema and lung disease.

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects:	Do not flush into surface water or sanitary sewer system.
Ecotoxicity - Invertebrate Data	Ecological damages are not known or expected under normal use.
Germany VCI (WGK):	0

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:	Where possible recycling is preferred to disposal or incineration. Dispose of in accordance with local regulations.
EWC waste disposal no:	702 - waste from the manufacture, formulation, supply and use of plastics, synthetic rubber and man-made fibres.

14. TRANSPORT INFORMATION

Transport Classification: Not regulated as hazardous for shipment, unless noted below, under current transportation guidelines.

DOT

ADR/RID/ADN

IMDG

ICAO

IATA-DGR

15. REGULATORY INFORMATION

This substance is classified and labelled according to Annex I of Directive 67/548/EEC, as amended.

R -phrase(s)

S -phrase(s)

International Inventories:

TSCA (USA):	Not listed
DSL (Canada):	Not listed
EINECS/ELINCS (Europe):	Listed
ENCS (Japan):	Listed
IECSC (China):	Listed
KECL (Korea):	Not listed
PICCS (Philippines):	Listed
AICS (Australia):	Not listed

Other Inventory Information:
A "Listed" entry above means all chemical components are on the respective inventory list and/or a qualifying exemption exists for one or more components. A "Not listed" entry above indicates one or more components is restricted from import or manufacture into that country/region. Articles are exempt from registration and are therefore not listed on the national chemical inventories.

California Proposition 65:
Components in this product known to the State of California to cause cancer and/or reproductive effects, are listed below:

Chemical Name	Weight %	California Proposition 65:
Antimony trioxide 1309-64-4	5-10	Type of Toxicity: cancer
Fibrous Glass 65997-17-3	30-70	Listed: July 1, 1990 Carcinogenic. (airborne, unbound particles of respirable size)

RoHS EU Directive 2002/95/EC:
This product complies with RoHS - it does not intentionally contain banned chemicals.

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16. OTHER INFORMATION

Text of R Phrases mentioned in Section 3

R40 - Limited evidence of a carcinogenic effect

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Prepared by: Product Stewardship & Toxicology.

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End of Material Safety Data Sheet