

# **SAFETY DATA SHEET**North America U.S. GHS Format

Print date: 25-Mar-2015 Revision Number: 2 Revision date: 26-Mar-2015

# 1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

Trademark: Product Code:	LUBRICOMP™ OX88533 - BK1A942
Product Description:	Polyphenylene sulfide [CASRN 26125-40-6] 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 US LLC One Plastics Avenue Pittsfield, MA 01201 USA (413) 448-5800 www.sabic-ip.com
Manufacturer:	SABIC Innovative Plastics US LLC 251 South Bailey Road Thorndale, Pennsylvania 19372 United States
Emergency Telephone Number:	800/447-4545
Emergency Transportation/CHEMTREC (24 HOUR):	800 424-9300 (USA) +1 703-527-3887 (globally, outside USA)
E-mail:	productinquiries@sabic-ip.com
Website Address:	www.sabic-ip.com

Product Name: LUBRICOMP PDX-O-88533 ;BK8-229 Page 1 of 10 Revision date: 26-Mar-2015



## 2. HAZARDS IDENTIFICATION

The additives in this product are bound in a thermoplastic resin matrix. In accordance with GHS for the classification of the product, the hazard potential may be assessed with respect to the physico-chemical form and/or bioavailability of the individual components in the thermoplastic resin.

Where GHS classifications are shown below, these are based on the individual components in the thermoplastic resin matrix. Under the typical use conditions for the resin, these hazardous components are unlikely to contribute to workplace exposure. Please read the entire safety data sheet and/or consult an EHS professional for a complete understanding.

## Classification

#### **OSHA Regulatory Status**

This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

In 1995, the International Agency for Research on Cancer (IARC) concluded that there is "sufficient evidence in experimental animals for the carcinogenicity of carbon black." IARC's overall evaluation was that "Carbon black is possibly carcinogenic to humans (2B)." In 2006, IARC re-affirmed this classification. There has been no causal link between carbon black exposure and cancer risk in humans. Applying the rules of the Globally Harmonized System of Classification and Labelling (GHS, e.g. UN 'Purple Book', EU CLP Regulation) the results of repeated dose toxicity and carcinogenicity studies in animals do not lead to classification of Carbon Black for Specific Target Organ Toxicity (Repeated exposure) and carcinogenicity. UN GHS says, that even if adverse effects are seen in animal studies or in-vitro tests, no classification is needed if the mechanism or mode of action is not relevant to humans. The European CLP Regulation also mentions, that no classification is indicated if the mechanism is not relevant to humans. Furthermore, the CLP guidance on classification and labelling states, that "lung overload" in animals is listed under mechanism not relevant to humans.

# GHS-Labeling

## **Emergency Overview**

#### Not classified

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance: Pellets Physical State: Solid Odor: Slightly

#### Hazards not otherwise classified (HNOC)

Not applicable

#### Other Information

Not applicable

Other hazards which do not result in classification:

# **SABIC Emergency Overview**

- · Pellets with slight or no odor
- Spilled material may create slipping hazard
- Can burn in a fire creating dense, toxic smoke
- Molten plastic can cause severe thermal burns
- Fumes produced during melt processing may cause eye, skin, and respiratory tract irritation. Severe over-exposure may result in nausea, headache, chills, and fever. See below for additional effects.
- Secondary operations, such as grinding, sanding, or sawing can produce dust which may present an explosion or respiratory hazard.

Product Name: LUBRICOMP PDX-O-88533 ;BK8-229 Page 2 of 10 Revision date: 26-Mar-2015



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.

Processing Issues: Processing vapors may cause irritation to the eyes, skin, and respiratory tract. In cases of

severe exposure, nausea and headache can also occur. Grease-like processing vapor condensates on ventilation ductwork, molds, and other surfaces can cause irritation and

injury to skin.

Aggravated Medical Conditions: MEDICAL RESTRICTIONS: There are no known health effects aggravated by exposure to

this product. However, certain sensitive individuals and individuals with respiratory impairments may be affected by exposure to components in the processing vapors.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Product Type** 

Mixture

#### **HAZARDOUS COMPONENTS:**

Chemical Name	CAS Number	Weight %
Fiberglass, EU/GHS classified	65997-17-3	30 - 70
Carbon black	1333-86-4	0.3-1.0

The non-hazardous components and exact percentage (concentration) of the composition have been withheld as a trade secret.

This product consists primarily of high molecular weight polymers which are not expected to be hazardous. The ingredients in this product are present within the polymer matrix and are not expected to be hazardous.

# 4. FIRST AID MEASURES

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If Inhalation:	Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. Processing fumes inhalation may be irritating to the respiratory tract. If symptoms are experienced remove victim from source of contamination or move victim to fresh air and obtain medical advice. If symptoms persist, call a physician.	
On skin contact:	Wash material off skin with soap and water. If redness, itching of burning sensation develops consult a physician for medical treatment. For melt processing, if skin contact with molten plastic material, cool rapidly with water or ice and consult a physician for medical treatment.	
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:	Not probable due to nature of the product. If a large amount of pellet material is swallowed, consult a physician for medical treatment.	
Precautions:	Cool molten product on skin with plenty of water. Do not remove solidified product. Do not peel polymer from the skin.	

Product Name: LUBRICOMP PDX-O-88533 ;BK8-229 Page 3 of 10 Revision date: 26-Mar-2015



## 5. FIRE-FIGHTING MEASURES

Autoignition Temperature: No information available

**Explosive Properties:** Avoid generating and accumulating dusts; fine dust dispersed in

air in sufficient concentrations, and in the presence of an ignition

source is a potential dust explosion hazard.

Suitable Extinguishing Media: Use dry chemical, CO2, water spray or "alcohol" foam. Water is

the best extinguishing medium. Carbon dioxide and dry chemical are not generally recommended because their lack of cooling capacity may permit re-ignition on larger resin fires (blobs, drools,

etc.).

Unsuitable Extinguishing Media for Safety Reasons: Do not use a solid water stream as it may scatter and spread fire.

Hazards from Combustion Products: During a fire, irritating smoke and toxic gases and aerosols may

be generated by thermal decomposition and combustion. Refer to STABILITY AND REACTIVITY SECTION, "HAZARDOUS

DECOMPOSITON PRODUCTS".

Special Protective Equipment for Firefighters: In the event of fire, wear self-contained breathing apparatus. Full

protectitive equipment.

**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. Material

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: Keep containers tightly closed in a dry, cool and well-ventilated

place. Keep away from heat sources and sources of ignition.

Incompatible Products: Strong acids, strong oxidizing agents.

Product Name: LUBRICOMP PDX-O-88533 ;BK8-229 Page 4 of 10 Revision date: 26-Mar-2015



# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## **Exposure limits:**

No components with information, unless noted below

Chemical Name	US OSHA PEL (8 Hr)	ACGIH	Canada - Alberta (8 Hr)	Mexico OEL Data	SABIC Recommend (8 Hr)*
Fiberglass, EU/GHS classified 65997-17-3	No Information	Inhalable fraction - TWA: 5 mg/m³; Notations: Not Classifiable as a Human Carcinogen; Crit Eff: Upper respiratory tract irritation ~cr~Respirable fibers - TWA: 1 f/cc; Notations: Not Classifiable as a Human Carcinogen Respirable fibers - Crit Eff: Upp	OEL_8 hr: 1 f/cc OEL_Ceiling: 1 f/cc	LMPE-PPT: 10 mg/m³ polvo	No Information
Carbon black	FRL_TWA: 3.5 mg/m <sup>3</sup>		OEL_8 hr: 3.5 mg/m <sup>3</sup>	LMPE-PPT: 3.5 mg/m <sup>3</sup>	No Information
1333-86-4	; TL_PEL: 3.5 mg/m <sup>3</sup>	Notations: Not		; LMPE-CT: 7 mg/m³ ;	
		Classifiable as a		CONN: A4	
*SARIC Recommended I		Human Carcinogen			

1333-86-4	; TL_PEL: 3.5 mg/m³	Notations: Not Classifiable as a Human Carcinogen		; LMPE-CT: 7 mg/m³; CONN: A4	No illioillation
*SABIC Recommended I	Exposure Limits have be	een established for certa	ain chemicals.		
promise promis		Handle in accordance with good industrial hygiene and safety practice. Provide for appropriate exhaust ventilation at machinery. Processing fume condensate may be a fire hazard and toxic; remove periodically from exhaust hoods, ductwork, and other surfaces using appropriate personal protection. 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:		Pr	otective gloves shoul	d be worn	
Eye Protection:		Sa	afety glasses with side	e-shields or chemical	goggles.
Respiratory Protection	on:	en pro fro pro ex pro	agineering systems, otection program (income organic vapors, ocessing vapors are perience symptoms oduced from secondary	administrative controlluding a respirator apacid, gases, and per not adequately cortof overexposure. If	peratures, implement ols or a respiratory oproved for protection particulate matter) if introlled or operators dust or powder are s sawing or grinding, in dust.
Body Protection:		co	ntact with the skin. V	ed material, avoid pro Vear long pants, long ceshield for protectior	sleeve shirt, well,
Hygiene Measures:		W	hen using, do not eat	, drink or smoke.	

Product Name: LUBRICOMP PDX-O-88533 ;BK8-229 Page 5 of 10 Revision date: 26-Mar-2015



## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid
Appearance:	Pellets

Color: Same as color code

Odor: Slightly

**Odor Threshold:** No information available

No data available Boiling point/range: Not determined Melting point/range: 285 °C estimated

**Autoignition Temperature:** No information available Flammability (solid, gas): No information available

Vapor Pressure: Negligible Water Solubility: Insoluble

Partition coefficient: No information available (n-octanol/water)

Vapor Density:

Not determined Negligible **Evaporation Rate:** 

Decomposition temp. (°C): Not determined Specific gravity: >1; (water = 1) VOC content (%): Negligible

**Explosive Limits** 

Not determined upper: lower: Not determined

# 10. STABILITY AND REACTIVITY

Stability: Stable under ambient conditions. Hazardous polymerization does not occur.

**Conditions to Avoid:** Decomposition under influence of moisture is highly accelerated

> by heating. To avoid thermal decomposition, avoid elevated temperatures. Heating can result in the formation of gaseous decomposition products, some of which may be hazardous. Do not exceed melt temperature recommendations in product literature. Purgings of hot material should be collected in small, flat, thin shapes and quenched with water to allow for rapid cooling. Do not allow product to remain in barrel at elevated

temperatures for extended periods of time.

Process vapors under recommended processing conditions may **Hazardous Decomposition Products:** 

include trace levels of hydrocarbons, hydrogen fluoride, carbonyl

fluoride, perfluorohydrocarbon fragments.

**Incompatible Products:** Strong acids, strong oxidizing agents

Product Name: LUBRICOMP PDX-O-88533 ;BK8-229 Page 6 of 10 Revision date: 26-Mar-2015



# 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity** 

LD50/oral/rat: >2000 mg/kg (estimated)

**LD50/dermal/rabbit:** >2000 mg/kg estimated

**Inhalation:** Pellet inhalation unlikely due to physical form. Irritating to respiratory system; avoid

inhalation of dusts.

**Eye Contact:** Resin particles, like other inert materials, are mechanically irritating to eyes.

**Skin Contact:** Not a hazard with pellets during normal industrial use. Contact causes skin irritation.

**Ingestion:** Not acutely toxic.

**Chronic Toxicity:** No information available.

Subchronic Toxicity: No information available

**Primary Irritation:** Substance does not generally irritate and is only mildly irritating to the skin. Skin irritation.

OSHA: Not regulated

**Remarks:** The toxicological data has been taken from products of similar composition.

Special Studies: Carbon Black: The International Agency for Research on Cancer (IARC) has determined

that carbon black is a class 2B known animal and possible human carcinogen by the route of inhalation. Rats exposed to high doses of carbon black by inhalation developed

statistically significant increases in lung fibrosis and lung tumors.

Carbon Black: The scientific discussions about the carcinogenic potential of inorganic low solubility particles (fine dust) including carbon black has not been concluded. Many inhalation toxicologists believe the lung fibrosis and tumors that developed in rats following exposure to carbon black result form massive accumulation of small dust particles that overwhelm the clearance mechanism and produce what is termed "lung overload," an effect

considered to be rat specific and not relevant to humans. In addition, based on

epidemiological studies, no causal link between carbon black exposure and cancer risk in

humans has been demonstrated.

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.

PROCESSING FUMES: The major thermal decomposition products of molded or heated polyphenylene sulfide include sulfur dioxide and carbonyl sulfide. Under certain conditions,

these may cause mucous membrane irritation, nose bleeds and finally if exposure

continues, respiratory paralysis and death.

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity Effects:** Do not flush into surface water or sanitary sewer system.

Other information: Ecological damages are not known or expected under normal

use.

Product Name: LUBRICOMP PDX-0-88533 ;BK8-229 Page 7 of 10 Revision date: 26-Mar-2015



# 13. DISPOSAL CONSIDERATIONS

**Contaminated Packaging:** 

Empty containers should be taken for local recycling, recovery or

waste disposal.

Waste Disposal:

Recycling is encouraged. Landfill or incinerate in accordance with federal, state and local requirements. Collected processing fume condensates and incinerator ash should be tested to determine waste classification.

# 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

**MEXICO** 

CANADA/TDG

## 15. REGULATORY INFORMATION

#### International Inventories:

TSCA (USA): Listed DSL (Canada): Listed **EINECS/ELINCS (Europe):** Listed **ENCS (Japan):** Listed IECSC (China): Listed **KECL** (Korea): Listed PICCS (Philippines): Listed AICS (Australia): Listed NZIoC (New Zealand): 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.

#### SVHC (REACH Regulation (EC) No 1907/2006 and 453/2010, as amended):

This product does not intentionally contain SVHC chemicals except as noted below. Incidental amounts of impurities, if present, would be below the threshold limit of 0.1% by weight.

Product Name: LUBRICOMP PDX-O-88533 ;BK8-229 Page 8 of 10 Revision date: 26-Mar-2015



#### SARA (313) Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA):

This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

## SARA (311, 312) hazard class:

Acute Health Hazard	N
Chronic Health Hazard	N
Fire Hazard	N
Sudden Release of Pressure Hazard	N
Reactive Hazard	N

#### Canada - WHMIS Classification:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR. Unless noted below, this product is non-controlled. Some classifications may not apply to the entire product.

#### 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:
Fiberglass, EU/GHS classified 65997-17-3	30 - 70	Listed: July 1, 1990 Carcinogenic. (airborne, unbound particles of respirable size)
Carbon black 1333-86-4	0.3-1.0	Listed: February 21, 2003 Carcinogenic. (airborne, unbound particles of respirable size)

#### RoHS EU Directive 2011/65/EU:

The subject product is in compliance with EU RoHS Directive 2011/65/EU. All below chemicals are not employed in the manufacture of the product: a.Cadmium and its compounds, b.Lead and its compounds, c.Mercury and its compounds, d.Hexavalent chromium compounds, e.Polybrominated biphenyls (PBBs), f.Polybrominated diphenyl ethers (PBDEs including Deca-BDE). The trace levels of heavy metals may be present as impurities within threshold limits (<0.1% for Pb, Hg, Cr VI, and <0.01% for Cd). We are disclosing this information, to the best of our knowledge, based upon data from our raw material manufacturers.

HMIS Rating
Health: 0
Flammability: 1
Reactivity: 0

Product Name: LUBRICOMP PDX-O-88533 ;BK8-229 Page 9 of 10 Revision date: 26-Mar-2015



## **16. OTHER INFORMATION**

#### SABIC and brands marked with ™ are trademarks of SABIC or its subsidiaries or affiliates.

www.sabic-ip.com

http://eur.sabic-ip.com/ordeur/pages/msds/MSDSSearch.jsp?app=sabic-ip

SDS Scope:

USA: Conforms to 29 CFR 1910.1200 (2012 OSHA Hazard Communication Standard)

This document is also applicable in other countries and regions.

Prepared by: Product Stewardship & Toxicology

**Reason for revision:** Update to GHS format

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**End of Safety Data Sheet** 

Product Name: LUBRICOMP PDX-O-88533 ;BK8-229 Page 10 of 10 Revision date: 26-Mar-2015