

# SAFETY DATA SHEET Asia Pacific GHS Format

Print date: 04-May-2016 Revision Number: 1 Revision date: 04-May-2016

## 1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

**Trademark:** LUBRICOMP™ **Product Code:** GFL36L - NC

Product Description: Polysulfone [CASRN 25154-01-2] 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 Japan LLC. Tokyo Club Building, 2-6 3Chome Kasumigaseki, Chiyoda-Ku Tokyo, 100-0013

Japan

-SABIC Innovative Plastics (China) Ltd.or SABIC Innovative Plastics International Trading Shanghai

Ltd. 2550 Xiupu Road, Pudong New Area, Shanghai 201319, China (Contact address)

-SABIC Korea Ltd. 20F, Donghoon Building, 317, Teheran-ro, Seoul, Korea -SABIC Innovative Plastics Singapore Pte Ltd 23, Benoi Road, 629895 Singapore

-SABIC Innovative Plastics (Thailand) Co. Ltd 64/22 Moo 4 Tumbol Pluak Daeng, Amphur Pluak

Daeng, Rayong 21140 Thailand

-SABIC Innovative Plastics India Ltd. Plastics Avenue, P.O. Jawaharnagar, District Vadodara 391320

India

-SABIC Taiwan Holding Ltd, Taiwan Branch, Room B,7F,No. 8,Min-Sheng E. Rd. Sec. 3,Taipei City

10480 Taiwan

-SABIC Innovative Plastics Hong Kong Limited. Flat/ RM 1701, Tower 1, the Gateway 25 Canton Road,

Tsimshatsui, Hong Kong

-SABIC Innovative Plastics (Aust.) Pty. Ltd. Suite 14, Building 3, 195 Wellington Road, Clayton,

Victoria, Australia 3168

Manufacturer: SABIC Innovative Plastics US LLC

251 South Bailey Road

Thorndale, Pennsylvania 19372

**United States** 

Emergency Telephone Number: Japan: +(81)-3-3593-4735

China: +86 532 83889090, +86 20 84980148

Korea: +(82)-2-510-6546 Singapore: +(65)-6210 4199

Thailand: +(66)-22312323-4 ext. 46, +(66)-38927000 ext. 7026

India: +(91)-265 3068554 Australia: +61 (0)3 9566 3000

**Emergency** 

800 424-9300 (USA)

Transportation/CHEMTREC

; -

+1 703-527-3887 (globally, outside USA)

(24 HOUR):

E-mail: Asiaproductinquiries@sabic.com

Website Address: www.sabic.com

Product Name: LUBRICOMP GFL-4036 LE Page 1 of 11 Revision date: 04-May-2016



#### 2. HAZARDS IDENTIFICATION

The additives in this product (if any) 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.

Globally Harmonized System, UN(GHS) - Classification

#### **GHS Category**

#### Not hazardous

Not classified

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**

GHS Labeling not required

#### **Precautionary Statements**

No GHS specific Precautionary Statements required - observe all other warnings and handling instructions in this SDS.

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 GFL-4036 LE Page 2 of 11 Revision date: 04-May-2016



Other Information: OSHA, IARC and/or NTP have listed carbon, titanium dioxide, crystalline silica (quartz),

respirable glass and certain heavy metals, present in some colorants and fillers, as carcinogens. If these materials are present in this product at significant quantities, they are

shown in Section 2/3. These materials are essentially bound to the plastic matrix and are unlikely to contribute to workplace exposure under recommended processing conditions.

**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

#### HAZARDOUS COMPONENTS:

Chemical Name	CAS Number	Weight %	GHS Classification (EC) No. 1272/2008 [CLP]:
Fiberglass, EU/GHS classified	65997-17-3	30-70	Carc.2 (H351)
Titanium dioxide	13463-67-7	5 - 10	

#### For the full text of the H-statements, if mentioned in this section, see Section 16.

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

**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: Not probable due to nature of the product. If a large amount of pellet material is swallowed,

consult a physician for medical treatment.

**Precautions:** Processing vapors inhalation may be irritating to the respiratory tract. If symptoms are

experienced remove victim from the source of contamination or move victim to fresh air and

obtain medical advice.

Product Name: LUBRICOMP GFL-4036 LE Page 3 of 11 Revision date: 04-May-2016



#### 5. FIRE-FIGHTING MEASURES

**Autoignition Temperature:** 

No information available

**Explosive Limits** 

upper: lower:

Not determined Not determined

**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 Do not use a solid water stream as it may scatter and spread fire.

for Safety Reasons:

**Hazards from Combustion** 

**Products:** 

Fire will produce dense black smoke containing hazardous combustion products, carbon

oxides, sulfur oxides, hydrocarbon fragments.

**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.

**Special Protective Equipment** 

for Firefighters:

Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected

location due to the potential of hazardous vapors and decomposition products.

## 6. ACCIDENTAL RELEASE MEASURES

**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.

Clean up:

Sweep up and shovel into suitable containers for disposal. Do not create a powder cloud by

using a brush or compressed air.

## 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.

Product Name: LUBRICOMP GFL-4036 LE Page 4 of 11 Revision date: 04-May-2016



## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure limits:** 

No components with information, unless noted below

Chemical Name	US OSHA PEL (8 Hr)	Japan OEL(TWA)	China O	EL(TWA)	Korea OEL(TWA)	Singapore OEL(TWA)	Thailand OEL(TWA)
Fiberglass, EU/GHS classified 65997-17-3	No Information	1 FIBERS/ML	3 MGM3 total 3 MGM3	fibers, dust Total dust.	TWA: 1 mg/m³ as W	PEL_LT: 1 mg/m³ as W; PEL_ST: 3 mg/m³	
Titanium dioxide 13463-67-7	FRL_TWA: 5 mg/m³ Respirable fraction , 10 mg/m³ Total dust ; TL_PEL: 5 mg/m³ Respirable fraction , 15 mg/m³ Total dust	4 MGM3	8 MGM3	Total dust.	TWA: 10 mg/m <sup>3</sup>	PEL_LT: 10 mg/m <sup>3</sup>	No Information

Chemical Name	India TWA	Malaysia OEL(TWA)	Taiwan OEL(TWA)	Australian OEL(TWA)	Phillipines OEL(TWA)	SABIC Recommend (8 Hr)*
Fiberglass, EU/GHS classified 65997-17-3	No Information	PEL_TWA8: 1 mg/m³ as W	No Information	No Information	No Information	No Information
Titanium dioxide 13463-67-7	No Information	PEL_TWA8: 10 mg/m <sup>3</sup>	PC: 10 mg/m <sup>3</sup>	No Information	15 MGM3	No Information

<sup>\*</sup>SABIC Recommended Exposure Limits have been established for certain chemicals.

Engineering Measures to Reduce Exposure:

Handle in accordance with good industrial hygiene and safety practices. 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:** 

Protective gloves should be worn

**Eye Protection:** 

Safety glasses with side-shields or chemical goggles. In addition, use full-face shield when cleaning processing vapor condensates from hood, ducts, and other surfaces.

**Respiratory Protection:** 

When using this product at elevated temperatures, implement engineering systems, administrative controls or a respiratory protection program (including a respirator approved for protection from organic vapors, acid, gases, and particulate matter) if processing vapors are not adequately controlled or operators experience symptoms of overexposure. If dust or powder are produced from secondary operations such as sawing or grinding, use a respirator approved for protection from dust.

**Body Protection:** 

Long sleeved clothing

**Hygiene Measures:** 

When using, do not eat, drink or smoke.

Product Name: LUBRICOMP GFL-4036 LE Page 5 of 11 Revision date: 04-May-2016



## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** 

Solid

Appearance:

Pellets

Color:

Same as color code

Odor:

None or slight

Melting point/range:

This product does not exhibit a sharp melting point but softens gradually over a wide range

of temperatures.

**Autoignition Temperature:** 

No information available

Vapor Pressure: Water Solubility: **Evaporation Rate:**  Negligible Insoluble Negligible

**Explosive Limits** 

upper: lower: Not determined Not determined

Specific gravity: VOC content (%): >1: (water = 1) Negligible

## 10. STABILITY AND REACTIVITY

Stability:

Stable under ambient conditions. Hazardous polymerization does not occur.

**Conditions to Avoid:** 

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.

**Hazardous Decomposition** 

**Products:** 

Process vapors under recommended processing conditions may include trace levels of hydrocarbons, carbon oxides, sulfur oxides, hydrogen fluoride, carbonyl fluoride,

perfluorohydrocarbon fragments.

Product Name: LUBRICOMP GFL-4036 LE Page 6 of 11 Revision date: 04-May-2016



## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity** 

**Product Information:** 

LD50/oral/rat: LD50/dermal/rabbit: >5000 mg/kg

>2000 mg/kg

**Component Information:** 

**Component Information Text:** 

No data available

Sensitization

**Respiratory Sensitization:** 

Not classified

Irritation:

Eye Irritation:

no data available

Primary Irritation: Subst

Substance does not generally irritate and is only mildly irritating to the skin Skin irritation

Subchronic Toxicity (28 days)

Repeated Oral Toxicity(28d):

No information available

Repeated Dermal Toxicity(28d): Subchronic Toxicity:

No Information available No information available

**Chronic Toxicity** 

Carcinogenicity:

There are no known carcinogenic chemicals in this product above de minimus reporting

levels, except as specifically mentioned below.

Chemical Name	IARC:
Fiberglass, EU/GHS classified 65997-17-3	3
Titanium dioxide 13463-67-7	2B

Mutagenic Effects:

No data is available on the product itself No information available

Reproductive Toxicity: Developmental Toxicity:

No information available.

Neurological effects:

No information available.

Specific Target Organ

Toxicity(STOT)

Target Organ Effects:

Not established.

**Aspiration Hazard** 

**Aspiration Hazard Statement:** 

No data available

Other relevant toxicity information

IARC:

Not listed

OSHA: NTP: Not regulated Not tested

Remarks:

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

Product Name: LUBRICOMP GFL-4036 LE Page 7 of 11 Revision date: 04-May-2016



**Special Studies:** 

Titanium Dioxide: The International Agency for Research on Cancer (IARC) has determined titanium dioxide to be a possible human carcinogen (class 2B) based on evidence in experimental animals. Rats exposed to high doses of titanium dioxide by inhalation or intratracheal instillation showed an increased incidence of lung tumors. 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** 

**Component Information:** 

Ecotoxicity Effects
Product Information:

Other information:

Harmful to aquatic life with long lasting effects.

Data for Zinc and soluble zinc compounds: Daphnia magna 48 hr EC50 = 0.07 – 0.86 mg/L Oncorhynchus mykiss 96 hr LC50 = 0.14 – 2.6 mg/L

Algae 72 hr EC50 = 0.136 - 0.150 mg/L

Daphnia magna 21 d NOEC = 0.014 - 0.03 mg/L

Danio rerio 32 d NOEC >= 0.54 mg/L

Persistence and Degradability

Biodegradation: Partition coefficient (n-octanol/water) Not inherently biodegradable

Not established.

**Bioaccumulative Potential:** 

Bioaccumulation:

Not established.

**Mobility** 

Mobility:

May be separated mechanically in waste water plants.

Other Adverse Effects

**Ecotoxicity Effects:** 

Do not flush into surface water or sanitary sewer system.

## 13. DISPOSAL CONSIDERATIONS

Waste from residues / unused

products:

Where possible recycling is preferred to disposal or incineration. Descartar em conformidade con as legislação locals.

**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.

Product Name: LUBRICOMP GFL-4036 LE Page 8 of 11 Revision date: 04-May-2016



# 14. TRANSPORT INFORMATION

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

guidelines.

IMO / IMDG Not regulated

ICAO Not regulated

IATA-DGR Not regulated

**DOT** Not regulated

ADR/RID Not regulated

ADR Not regulated

ADN Not regulated

Product Name: LUBRICOMP GFL-4036 LE Page 9 of 11 Revision date: 04-May-2016



## 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.

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

This product contains a chemical or chemicals that are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	CAS Number	Weight %	CERCLA/SARA 313 de minimus:
Zinc oxide	1314-13-2	1-5	1.0

## 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:

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)
Titanium dioxide 13463-67-7	5 - 10	Listed: September 2, 2011 Carcinogenic. (airborne, unbound particles of respirable size)
Carbon black 1333-86-4	≤100 ppm	Listed: February 21, 2003 Carcinogenic. (airborne, unbound particles of respirable size)

Product Name: LUBRICOMP GFL-4036 LE Page 10 of 11 Revision date: 04-May-2016



#### 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

#### **16. OTHER INFORMATION**

#### Full text of H-Statements referred to under sections 2 and 3

H351 - Suspected of causing cancer if swallowed

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

Visit our public website to search, view and print Safety Data Sheets for commercial products: http://eur.sabic-ip.com/ordeur/pages/msds/MSDSSearch.jsp?app=sabic-ip

#### SDS Scope:

Singapore: Conforms to Singapore workplace Safety and Health (WSH) Act, WSH Regulations, and GHS Standard 586 China: Conforms to Chinese Regulation on the Control over Safety of Hazardous Chemicals (Decree No 591) and GHS standards GB15258,GB13698,GB/T16483 etc.

Japan: Conforms to Industrial Safety and Health Law (2006) and GHS related Standards JIS Z7253:2012

Korea: Conforms to Industrial Safety & Health Act, Ministry of Labor, Korea

Taiwan: Conforms to Taiwan Rules on Hazard Communication and Labeling of Hazardous Substances, (Council of Labor Affairs, Taiwan) and GHS standards Z1051

Thailand: Conforms to Notification of the Ministry of Industry on the System of Classification and Hazard Communication of Hazardous Substances B.E. 2555 (2012)

Australia: National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011 (2003)] This document is also applicable in other countries and regions.

#### Prepared by: Product Stewardship & Toxicology

DISCLAIMER: This Safety Data Sheet [SDS] information is provided based on the Hazard Communication Regulations for your region or country and for the use of the persons required to receive this information under those regulations. The information is neither designed nor recommended for any other use or for use by any other person, including for compliance with other laws. SABIC Innovative Plastics does not warrant the suitability for use of this SDS for any other material or product not specifically identified herein. SABIC Innovative Plastics does not warrant the accuracy or authenticity of this SDS unless it has been obtained directly from SABIC Innovative Plastics, or posted or viewed on a SABIC Innovative Plastics website. Modification of this SDS, unless specifically authorized by SABIC Innovative Plastics, is strictly prohibited. This SDS is based on information that is believed to be reliable, but may be subject to change as new information becomes available. Because it is not possible to anticipate all conditions of use, additional safety precautions may be required. Since the use of this material is not under SABIC Innovative Plastics' control, each user is responsible for making its own determination as to the safe and proper handling of this material in its own particular use of this material. SABIC INNOVATIVE PLASTICS MAKES NO REPRESENTATION OR WARRANTY, EITHER EXPRESS OR IMPLIED, INCLUDING AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each user should read and understand this information and incorporate it into individual site safety programs as required by applicable hazard communication standards and regulations.

**End of Safety Data Sheet** 

Product Name: LUBRICOMP GFL-4036 LE Page 11 of 11 Revision date: 04-May-2016