

Cargille Sub-Lux Gel Code 081160C

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 01/06/2017

Revision: 01/05/2017

1 Identification

- Product identifier
- · Trade name: Cargille Sub-Lux Gel Code 081160C
- Product code: 24320, 24330

· Recommended use and restriction on use

· Recommended use:

This SDS or an accurate copy is an integral part of using Sub-Lux Gel Code 081160C. Only use Sub-Lux Gel Code 081160C if the SDS is present. Conditions prevailing in this document, unless otherwise noted: Temperature = $23^{\circ}C(73^{\circ}F)$, Pressure = 1013.25 hPa (760 mm Hg)

For Professional and R&D use only. Conditions of Intended Use: (ABBR. C.I.U.) As a Gel at normal room pressure 101.32 kPa (760 mm Hg), temperature 4°C to 40°C (39°F to 104°F) in a non misted / non airborne state in a room having normal air changes (2) / HR., in a trained and supervised laboratory / industrial setting using standard Good Laboratory/Good Manufacturing procedures. Note: Product normally sold 1 oz and 4 oz quantities.

· Restrictions on use: Contact manufacturer/supplier

- · Details of the supplier of the Safety Data Sheet
- Manufacturer/Supplier: Cargille Laboratories 55 Commerce Road Cedar Grove, NJ 07009-1289 USA 973-239-6633 www.cargille.com
- Emergency telephone number: ChemTel Inc.

(800)255-3924, +1 (813)248-0585

2 Hazard(s) identification

· Classification of the substance or mixture

Repr. 1 H360 May damage fertility or the unborn child.

· Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS). • Hazard pictograms:



GHS08

- · Signal word: Danger
- · Hazard statements:
- H360 May damage fertility or the unborn child.

· Precautionary statements:

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P280 Wear protective gloves/protective clothing/eye protection.

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P308+P313 IF exposed or concerned: Get medical advice/attention. P405 Store locked up.

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

· Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Components:

| •••••• | | |
|------------|--|--------|
| 85-68-7 | benzyl butyl phthalate | 60-80% |
| | & Repr. 1B, H360 | |
| 68648-93-1 | 1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters | 20-40% |
| | & Repr. 1B. H360 | |
| 1333-86-4 | carbon black | 0.1-1% |
| | & Carc. 2, H351 | |

· Additional information:

For the wording of the listed Hazard Statements refer to section 16.

Non-classification as a carcinogen is based on non-inhalable form of product. IARC listings for carbon black note that the substance must be respirable.

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.

4 First-aid measures

· Description of first aid measures

· After inhalation:

Respiration of particulates is unlikely during normal usage. Supply fresh air; consult doctor in case of complaints.

• After skin contact:

Immediately wash with water and soap and rinse thoroughly. If skin irritation is experienced, consult a doctor.

- · After eye contact:
- Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

- Most important symptoms and effects, both acute and delayed: Gastric or intestinal disorders when ingested.
- Nausea in case of ingestion.
- · Danger: May damage fertility or the unborn child.
- Indication of any immediate medical attention and special treatment needed:
- If medical advice is needed, have product container or label at hand.

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5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Foam Gaseous extinguishing agents Carbon dioxide Fine outing much is a neurolog
- Fire-extinguishing powder
- For safety reasons unsuitable extinguishing agents: Water
- \cdot Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.
- · Advice for firefighters
- · Protective equipment:
- Wear self-contained respiratory protective device.
- Wear fully protective suit.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.
- Environmental precautions Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.
- Methods and material for containment and cleaning up Pick up mechanically. Send for recovery or disposal in suitable receptacles. Dispose unusable material as waste according to item 13.
- **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.

7 Handling and storage

- · Handling
- · Precautions for safe handling: Use only in well ventilated areas.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and receptacles:
- Avoid storage near extreme heat, ignition sources or open flame.
- Information about storage in one common storage facility:
- Store away from foodstuffs.
- Store away from oxidizing agents.

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- Further information about storage conditions: Storage Temperatures : 39 - 104 °F / 4 - 40 °C. Keep containers tightly sealed.
- · Specific end use(s) No relevant information available.

8 Exposure controls/personal protection

· Control parameters

· Components with limit values that require monitoring at the workplace:

| components w | in mine values that require monitoring at the workpr | | | | |
|----------------|---|--|--|--|--|
| 1333-86-4 carb | 6-4 carbon black | | | | |
| PEL (USA) | Long-term value: 3.5 mg/m ³ | | | | |
| REL (USA) | Long-term value: 3.5* mg/m ³ *0.1 in presence of PAHs;See Pocket Guide Apps.A+C | | | | |
| TLV (USA) | Long-term value: 3* mg/m ³ *inhalable fraction | | | | |
| EL (Canada) | Long-term value: 3 mg/m³ IARC 2B | | | | |
| EV (Canada) | Long-term value: 3.5 mg/m ³ | | | | |
| LMPE (Mexico) | Long-term value: 3* mg/m ³ | | | | |

· Exposure controls

- · Personal protective equipment:
- · General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed.
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.

A3, *fracción inhalable

- Wash hands before breaks and at the end of work.
- Store protective clothing separately. • Engineering controls: Provide adequate ventilation.
- Breathing equipment: Not required under normal conditions of use.
- · Protection of hands:



Thermally-protective gloves.

· Eye protection:



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear. • **Body protection:** Protective work clothing

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• Limitation and supervision of exposure into the environment No relevant information available.

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No relevant information available.

9 Physical and chemical properties

| Information on basic physical an | d chemical properties |
|--|---|
| · Appearance: | Oallianid |
| Form: Color: | Gel liquid. Translucent |
| · Odor: | Slight |
| · Odor threshold: | Not determined. |
| • | |
| · pH-value: | Not determined. |
| Melting point/Melting range: | Not determined. |
| · Boiling point/Boiling range: | >370 °C (>698 °F) |
| · Flash point: | >199 °C (>390 °F) |
| · Flammability (solid, gaseous): | Not applicable. |
| · Auto-ignition temperature: | Not determined. |
| Decomposition temperature: | Not determined. |
| Danger of explosion: | Product does not present an explosion hazard. |
| · Explosion limits | |
| Lower: | Not determined. |
| Upper: | Not determined. |
| · Oxidizing properties: | Not determined. |
| · Vapor pressure: | Not determined. |
| · Density: | |
| Relative density: | 1.11 (water = 1) |
| Vapor density: | Not determined. |
| Evaporation rate: | Not determined. |
| Solubility in / Miscibility with | |
| Water: | Not miscible or difficult to mix. |
| · Partition coefficient (n-octanol/water | r): Not determined. |
| · Viscosity | |
| Dynamic: | Not determined. |
| Kinematic: | Not determined. |
| Other information | No relevant information available. |

10 Stability and reactivity

· Reactivity: No relevant information available.

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• Chemical stability: Stable under normal temperatures and pressures.

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No decomposition if used and stored according to specifications. **Possibility of hazardous reactions** Reacts with strong acids and alkali. Reacts with strong oxidizing agents. Toxic fumes may be released if heated above the decomposition point.

· Thermal decomposition / conditions to be avoided:

- Conditions to avoid Excessive heat.
- · Incompatible materials Oxidizers, strong bases, strong acids
- Hazardous decomposition products Carbon monoxide and carbon dioxide

| ſ | F | IT | οх | C | ol | 00 | ica | nf | or | ma | itic | n |
|---|---|----|----|---|----|----|-----|----|----|----|------|---|
| | | | | | | | | | | | | |

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:

85-68-7 benzyl butyl phthalate

Oral LD50 2330 mg/kg (rat)

- Primary irritant effect:
- On the skin: Based on available data, the classification criteria are not met.
- \cdot On the eye: Based on available data, the classification criteria are not met.
- · Sensitization: Based on available data, the classification criteria are not met.
- · IARC (International Agency for Research on Cancer):

1333-86-4 carbon black

• NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

- · Probable route(s) of exposure:
- Ingestion. Eye contact.

Skin contact.

- Acute effects (acute toxicity, irritation and corrosivity): From product as supplied: None.
- Repeated dose toxicity: May damage fertility or the unborn child.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) Repr. 1
- Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · Carcinogenicity:
- Contains known or suspect carcinogens when inhaled. Product is in non-inhalable form and is nonclassifiable as a carcinogen.
- Reproductive toxicity: May damage fertility or the unborn child.
- 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.

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• Aspiration hazard: Based on available data, the classification criteria are not met.

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12 Ecological information

- · Toxicity
- · Aquatic toxicity Toxic to aquatic life with long lasting effects.
- · Persistence and degradability No relevant information available.
- Bioaccumulative potential: No relevant information available.
- Mobility in soil: No relevant information available.
- Ecotoxical effects:
- · Remark: Very toxic for fish
- · Additional ecological information
- · General notes:

Do not allow product to reach ground water, water course or sewage system.

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

· Uncleaned packagings

• Recommendation: Disposal must be made according to official regulations.

| 4 Transport information | |
|----------------------------|--|
| · UN-Number | Firmer |
| · DOT · ADR, IMDG, IATA | Exempt UN3082 |
| · UN proper shipping name | |
| ·DOT | Exempt |
| · ADR, IMDG, IATA | ENVIRONMENTALLY HAZARDOUS SUBSTANCI LIQUID, N.O.S. (benzyl butyl phthalate) |
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| · DOT · Class | |
|---|---|
| Class | |
| | Exempt |
| ADR | |
| | |
| Class | 9 (M6) Miscellaneous dangerous substances an articles |
| Label | 9 |
| IMDG, IATA | |
| | |
| · Class · Label | 9 Miscellaneous dangerous substances and articles 9 |
| Packing group DOT ADR, IMDG, IATA | Exempt III |
| Environmental hazards | Product contains, environmentally bezordou |
| | Product contains environmentally hazardou substances: benzyl butyl phthalate |
| Marine pollutant: | Yes |
| | Symbol (fish and tree) |
| Special precautions for user | Warning: Miscellaneous dangerous substances an articles |
| Danger code (Kemler): | 90 |
| EMS Number: | F-A,S-F |
| Transport in bulk according to Annex II o | of |
| MARPOL73/78 and the IBC Code | Not applicable. |
| Transport/Additional information: | Not regulated when carried in single or combination packaging containing a net quantity of 5 L or less for liquids or 5 kg or less for solids per the following: DOT: 171.4(c)(2) ADR: SP 375 IMDG: 2.10.2.7 IATA: special provision A197 |

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| r | Safety, health and environmental regulations/legislation specific for the substance nixture |
|-----------------|---|
| | Jnited States (USA) SARA |
| . ૬ | Section 302 (extremely hazardous substances): |
| Ν | None of the ingredients are listed. |
| . ૬ | Section 355 (extremely hazardous substances): |
| Ν | None of the ingredients are listed. |
| . ૬ | Section 313 (Specific toxic chemical listings): |
| Ν | None of the ingredients are listed. |
| ٠T | SCA (Toxic Substances Control Act) |
| | All ingredients are listed. |
| • C F | Proposition 65 (California) Chemicals known to cause cancer: Reference to carbon black is based on unbound respirable particles and is not generally applicable product as supplied. |
| 1 | 333-86-4 carbon black |
| · (| Chemicals known to cause reproductive toxicity for females: |
| Ν | None of the ingredients are listed. |
| · (| Chemicals known to cause reproductive toxicity for males: |
| Ν | None of the ingredients are listed. |
| · (| Chemicals known to cause developmental toxicity: |
| 8 | 35-68-7 benzyl butyl phthalate |
| | Carcinogenic categories |
| | EPA (Environmental Protection Agency): |
| را ∙ F p | B5-68-7 benzyl butyl phthalate ARC (International Agency for Research on Cancer): Reference to carbon black is based on unbound respirable particles and is not generally applicable product as supplied. 333-86-4 carbon black |
| • N | NOSH-Ca (National Institute for Occupational Safety and Health): |
| 1 | 333-86-4 carbon black |
| · (| Canadian Domestic Substances List (DSL): |
| | All ingredients are listed. |

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16 Other information

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. The information supplied is based on data available to us and is believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to this information presented and Cargille Laboratories assumes no responsibility for the result of the use of this product. This information is furnished upon the condition that the persons responsible for its use shall make their own determination of the suitability of the material for their particular purpose. Please note that we consider the English version to be the authoritative version for compliance and regulatory purposes.

Date of preparation / last revision 01/06/2017 / -

· Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health LDLo: Lowest Lethal Dose Observed Carc. 2: Carcinogenicity - Category 2 Repr. 1: Reproductive toxicity - Category 1 Repr. 1B: Reproductive toxicity - Category 1B Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902

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