Black Liquid Silicone Pigment

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1.: Product identifier/product name: Liquid Black (Liquid Black SW) Masterbatch
1.2.: Relevant identified uses of the substance or mixture and uses advised against:
Identified Uses: Silicone Elastomer Colourant
Uses advised against: None known

1.3.: Details 0f Manufacturer:

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SECTION 2: Hazards identification

2.1.: Classification of the substance or mixture: Classification according to Regulation (EC) No. 1272/2008 as amended
Not classified as a hazardous substance or mixture.
2.2.: Label elements: Labelling according to Regulation (EC) No. 1272/2008
No labelling according to GHS required
2.3.: Other hazards: No data available

SECTION 3: Composition/information on ingredients

3.1. : Substances: Pigment and Polydimethylsiloxane
3.2.: Mixtures:
3.2.2. Hazardous ingredients: This material does not contain any ingredients above the permitted limit(s).

SECTION 4: First aid measures

4.1. Description of first aid measures: General information: In case you feel unwell seek medical advice
Contact with the eyes: Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation
Contact with the skin: Wipe off excess material with cloth or paper. Wash with plenty of water or water and soap. In the event of a visible skin change or other complaints, seek medical advice
Inhalation: Remove to fresh air, seek medical advice
Ingestion: Clean Mouth, Give several small portions of water to drink. Do not induce vomiting
4.2. Most important symptoms and effects, both acute and delayed: None Known
4.3. Indication of any immediate medical attention and special treatment needed: No Specific Recommendations, Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media: Suitable extinguishing media: water mist, extinguishing powder, alcohol-resistant foam, carbon dioxide, sand: Extinguishing media which must not be used for safety reasons: water jet .
5.2. Special hazards arising from the substance or mixture: None Known
5.3.: Advice for firefighters: Special protective equipment for firefighting: Use respiratory protection independent of recirculated air. Keep unprotected persons away.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:
Secure the area. Wear personal protection equipment (see section 8). Keep unprotected persons away. If material is released indicate risk of slipping. Do not walk through spilled material.

6.2. Environmental precautions:
Prevent material from entering surface waters, drains or sewers and soil. Close leak if possible without risk. Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Inform authorities if substance leaks into surface waters, sewerage or ground.

6.3.: Methods and material for containment and cleaning up:
Prevent further leakage or spillage, if safe to do so. Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labelled containers. Clean contaminated surface thoroughly. Use personal protective equipment as required. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner.

6.4. Reference to other sections:
Relevant information in other sections has to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13)

SECTION 7: Handling and storage

7.1. Precautions for safe handling:
No special precautions for safe handling beyond good hygiene practices, use personal protective equipment. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

7.2. Precautions against fire and explosion:
Observe the general rules for fire prevention.

7.3. Conditions for safe storage, including any incompatibilities:
Store in a cool, dry place with adequate ventilation, Keep away from incompatible materials, open flames, and high temperatures. Avoid contact with oxidizing agents

SECTION 8: Exposure controls/personal protection

8.1.: Control parameters: Maximum airborne concentrations at the workplace: Not applicable

8.2.: Exposure Controls
Protective Measure, Personal Protective Equipment:
Eye Protection: Safety Glasses
Skin Protection: Nitrile Gloves
General protection and hygiene measures: Observe standard industrial hygiene practices for the handling of chemical substances. Do not eat, drink or smoke when handling.

SECTION 9: Physical and chemical properties;

Information on basic physical and chemical properties:
Appearance; Liquid
Colour: Black
Odour; Slight
Ph: No data available
Melting Point: No data available
Boliing Point: No data available
Flash Point: No Data Available
Evapouration Rate: No data available
Flammability Rate: Upper / Lower or explosive limits: No data available
Vapour density: No data available
Solubility in water: No data available
Partition coefficient (n-octanol/water): No data available
Autoignition Temperature: No data available
Decomposition Temperature: No data available
Viscosity: No data available

SECTION 10: Stability and reactivity

10.1.: If stored and handled in accordance with standard industrial practices no hazardous reactions are known.
10.2.: Conditions to avoid: none known
10.3.: Incompatible materials: Strong Oxidizing Agents

10.4.: Hazardous decomposition products: If stored and handled properly: none known. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: Toxicological information
Information on likely routes of exposure:
Inhalation: no information available
Ingestion: no information available
Skin Contact: no information available
Eye Contact: no information available
11.1.: Information on toxicological effects
There is no toxicological information for this product at this endpoint. Information is given on specified substance in the ingredients.

Acute toxicity:

Route of exposure	Result/Effect	Species/ Test system	Source
Oral	LD_{50}: > 5000 mg/kg Neither mortality nor clinical signs of toxicity were observed with the given dose.	rat	literature (Polydimethylsiloxane)
Dermal	LD_{50}: > 2008 mg/kg Neither mortality nor clinical signs of toxicity were observed with the given dose.	rat	literature (Polydimethylsiloxane)

11.1.2. Skin corrosion/irritation

Result/Effect	Species/ Test system	Source
not irritating	not irritating rabbit	literature (Polydimethylsiloxane)

11.1.3.: Serious eye damage/eye irritation:

Result/Effect	Species/ Test system	Source
not irritating	not irritating rabbit	literature (Polydimethylsiloxane)

11.1.4.: Respiratory or skin sensitization

Route of exposure	Result/Effect	Species/ Test system	Source
Dermal	not sensitizing .	guinea-pig; Magnusson-Kligman	literature (Polydimethylsiloxane) OECD 406

11.1.5.: Germ cell mutagenicity: **There is no toxicological information for this product at this endpoint. Information is given on specified substance in the ingredients. Polydimethylsiloxane: Assessment: Based on known data a significant mutagenic potential may be excluded.**

Result/Effect	Species/ Test system	Source

Negative	Mutation assay (in vitro) Bacterial cells	literature (Polydimethylsiloxane) OECD471

11.1.6.: Carcinogenicity: **There is no toxicological information for this product at this endpoint. Information is given on specified substance in the ingredients. Polydimethylsiloxane: Assessment** Animal tests have not revealed any carcinogenic effects

Result/Effect	Species/ Test system	Source
NOAEL: >= 1000 mg/kg NOAEL= NOAEL (carcinogenic effects)	carcinogenicity study rat (F344) oral (feed) 2 a	literature (Polydimethylsiloxane)

11.1.7.: Reproductive toxicity: **There is no toxicological information for this product at this endpoint. Information is given on specified substance in the ingredients. Polydimethylsiloxane: Assessment** : Animal tests have shown no indications of possibility of damage to embryo and impairment of fertility.

Result/Effect	Species/ Test system	Source
Animal tests have shown no indications of possibility of damage to embryo and impairment of fertility.	Developmental Toxicity Study rabbit oral (gavage); day 6 - 19 of gestation	literature (Polydimethylsiloxane)

11.1.8.: Specific target organ toxicity (single exposure) : T**here is no toxicological information for this product at this endpoint.**

11.1.9.: Specific target organ toxicity (repeated exposure) T**here is no toxicological information for this product at this endpoint. Information is given on specified substance in the ingredients.**

Result/Effect	Species/ Test system	Source
NOAEL: >= 1000 mg/kg NOAEL = NOAEL (systemic effects)	chronic study rat oral (feed) 1 a Follow-up observation period: 1 a	literature (Polydimethylsiloxane)

11.1.10.: Aspiration hazard : **Assessment:** T**here is no toxicological information for this product at this endpoint.**

SECTION 12: Ecological information

12.1. General Information: There is no Ecological information for this product at this endpoint.

12.2. Persistence and degradability : No information available
Product Information:
Biodegradation: No information available
BOD: No information available
ThCO2: No information available
DOC: No information available

12.3. Bioaccumulative potential
Product Information:
Bioaccumulation (factor): No information available

12.4. Mobility in soil: No data available
12.5. Results of PBT and vPvB assessment: No data available
12.6 Other adverse effect:None Known / No data available

SECTION 13: Disposal considerations

Recommendation: Material that cannot be used, reprocessed or recycled should be disposed of in accordance with local regulations at an approved facility. Depending on the regulations, waste treatment methods may include, e.g., landfill or

incineration.
Uncleaned packaging: Recommendation: Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations. Uncleaned packaging should be treated with the same precautions as the material.

SECTION 14: Transport information

This product is not subject to transport regulations
Road ADR: Valuation: Not regulated for transport
Railway RID: Valuation: Not regulated for transport
Transport by sea IMDG-Code: Not regulated for transport
Air transport ICAO-TI/IATA-DGR: Not regulated for transport

SECTION 15: Regulatory information

15.1.: Safety, health and environmental regulations/legislation specific for the substance or mixture National and local regulations must be observed
15.2.:chemical safety assessment according to (EC) regulation 1907/2006 (REACH) has not been carried out for this product

SECTION 16: Other information

Reference:

The information given is based on data available for the material, the components of the material, and similar materials. The information is believed to be correct. It is given in good faith. This information should be used to make an independent determination of the methods to safeguard workers and the environment.