

Section 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product name: PPF SHIELD

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: Car coating wax Car care product

1.3. Details of the supplier of the safety data sheet

Company name: Fireball Co., Ltd.

27

Geuringongdan 4-gil

Yangsang-si, Gyeongsangnamdo

S.Korea

50540

S.Korea

Tel: 82-10-6462-8888

Email: kumsoli@hotmail.com

1.4. Emergency telephone number

Emergency tel: 2102491136(24H)

Section 2: Hazards identification**2.1. Classification of the substance or mixture**

Classification under CLP: Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315

Most important adverse effects: Flammable liquid and vapour. Causes skin irritation. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.

2.2. Label elements**Label elements:**

Hazard statements: H226: Flammable liquid and vapour.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H411: Toxic to aquatic life with long lasting effects.

Hazard pictograms: GHS02: Flame

GHS07: Exclamation mark

GHS09: Environmental



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Signal words: Warning

Precautionary statements: P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P241: Use explosion-proof equipment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352: IF ON SKIN: Wash with plenty of water.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water .

P362+P364: Take off contaminated clothing and wash it before reuse.

2.3. Other hazards

Other hazards: In use, may form flammable / explosive vapour-air mixture.

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

KEROSINE - UNSPECIFIED - DISTILLATES (PETROLEUM), HYDROTREATED LIGHT

| EINECS | CAS | PBT / WEL | CLP Classification | Percent |
|-----------|------------|-----------|--|---------|
| 265-149-8 | 64742-47-8 | - | Asp. Tox. 1: H304; Aquatic Chronic 2: H411 | 70-90% |

METHYL METHOXY SILOXANE WITH METHYL SILSESQUIOXANE

| | | | | |
|-----------|------------|---|---|-------|
| 614-229-4 | 68037-85-4 | - | Flam. Liq. 2: H225; Eye Irrit. 2: H319; Skin Irrit. 2: H315 | 1-10% |
|-----------|------------|---|---|-------|

METHYL METHOXY SILANE

| | | | | |
|-----------|-----------|---|--|-------|
| 214-685-0 | 1185-55-3 | - | Flam. Liq. 2: H225; Eye Irrit. 2: H319 | 1-10% |
|-----------|-----------|---|--|-------|

Non-classified ingredients:

POLYDIMETHYLSILOXANE

| EINECS | CAS | PBT / WEL | CLP Classification | Percent |
|-----------|------------|-----------|--------------------|---------|
| 618-493-1 | 63148-62-9 | - | - | 1-10% |

METHYLHYDROGEN SILOXANE, TRIMETHYLSILOXY-TERMINATED

| | | | | |
|-----------|------------|---|---|-------|
| 613-152-3 | 63148-57-2 | - | - | 1-10% |
|-----------|------------|---|---|-------|

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ORGANIC POLYSILAZANE

| | | | | |
|---|-------------|---|---|-----|
| - | 475645-84-2 | - | Flam. Liq. 2: H225; Acute Tox. 4: H302; Skin Corr. 1A: H314; Aquatic Chronic 3: H412; Skin Corr. 1B: H314; Skin Corr. 1C: H314 | <1% |
|---|-------------|---|---|-----|

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: Eye bathing equipment should be available on the premises. A decontamination shower should be available on the premises. Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Alcohol resistant foam. Water spray. Carbon dioxide. Dry chemical powder. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Flammable. In combustion emits toxic fumes. Forms explosive air-vapour mixture.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

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6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. Eliminate all sources of ignition.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS. Refer to section 13 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Smoking is forbidden. Use non-sparking tools.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition.

7.3. Specific end use(s)

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Protective gloves.

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Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Colourless

Odour: Characteristic odour

Evaporation rate: No data available.

Oxidising: No data available.

Solubility in water: No data available.

Viscosity: Non-viscous

Boiling point/range°C: No data available.

Flammability limits %: lower: No data available.

Flash point°C: 23 - 60

Autoflammability°C: No data available.

Relative density: No data available.

VOC g/l: No data available.

Melting point/range°C: No data available.

upper: No data available.

Part.coeff. n-octanol/water: No data available.

Vapour pressure: No data available.

pH: No data available.

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions. Stable at room temperature.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.
Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat. Hot surfaces. Sources of ignition. Flames.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

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Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

METHYL METHOXY SILANE

| | | | | |
|------------|-----|---------|-------|-------|
| DERMAL | RBT | LD50 | 20 | g/kg |
| INHALATION | RAT | 8H LC50 | 22500 | ppmV |
| ORAL | RAT | LD50 | 6200 | mg/kg |

Non-classified ingredients:

POLYDIMETHYLSILOXANE

| | | | | |
|------------|-----|---------|--------|-------|
| INHALATION | RAT | 1H LC50 | >535 | mg/l |
| ORAL | RAT | LD50 | >40000 | mg/kg |

ORGANIC POLYSILAZANE

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|------|-----|------|-----------|-------|
| ORAL | RAT | LD50 | >300-2000 | mg/kg |
|------|-----|------|-----------|-------|

Relevant hazards for product:

| Hazard | Route | Basis |
|-------------------------------|-------|-----------------------|
| Skin corrosion/irritation | DRM | Hazardous: calculated |
| Serious eye damage/irritation | OPT | Hazardous: calculated |

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

METHYL METHOXY SILANE

| | | | |
|------|----------|-------|------|
| FISH | 96H LC50 | 28200 | mg/l |
|------|----------|-------|------|

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POLYDIMETHYLSILOXANE

| | | | |
|------|----------|-------|------|
| FISH | 96H LC50 | 10000 | mg/l |
|------|----------|-------|------|

ORGANIC POLYSILAZANE

| | | | |
|------|----------|------|------|
| FISH | 96H LC50 | 57.1 | mg/l |
|------|----------|------|------|

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN1993

14.2. UN proper shipping name

Shipping name: FLAMMABLE LIQUID, N.O.S.

(KEROSENE - UNSPECIFIED - DISTILLATES (PETROLEUM), HYDROTREATED LIGHT; METHYL METHOXY SILOXANE WITH METHYL SILSESQUIOXANE; METHYL METHOXY SILANE)

14.3. Transport hazard class(es)

Transport class: 3

14.4. Packing group

Packing group: III

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14.5. Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: No

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: D/E

Transport category: 3

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations: Not applicable.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H225: Highly flammable liquid and vapour.

H226: Flammable liquid and vapour.

H302: Harmful if swallowed.

H304: May be fatal if swallowed and enters airways.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H411: Toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.