

Safety Data Sheet

NCA019 CEILCOTE 2000 FLAKELINE LT GREY PART A

Version Number 4 Revision Date 05/01/16

1. Product and company identification

| | |
|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| 1.1. Product identifier | CEILCOTE 2000 FLAKELINE LT GREY PART A |
| Product Code | NCA019 |
| 1.2. Relevant identified uses of the substance or mixture and uses advised against | |
| Intended use | Refer Technical Data Sheet. For professional use only. |
| Application Method | Refer Technical Data Sheet. |
| 1.3. Details of the supplier of the safety data sheet | |
| Importer or Manufacturer | International Paint Singapore Pte Ltd 3 Neythal Road Jurong Town Singapore 628570 |
| Telephone No. | +65 6261 5033 |
| Fax No. | +65 6264 4612 |
| 1.4. Emergency telephone number (24 hour) | +65 6261 5033 |
| For Poisons Advice telephone | For Advice to Doctors & Hospitals only |

2. Hazard identification of the product**2.1. Classification of the substance or mixture**

| | |
|------------------------|--------------------------------------------------|
| Skin Irrit. 2;H315 | Causes skin irritation. |
| Eye Irrit. 2;H319 | Causes serious eye irritation. |
| Skin Sens. 1;H317 | May cause an allergic skin reaction. |
| Muta. 2;H341 | Suspected of causing genetic defects. |
| Aquatic Chronic 2;H411 | Toxic to aquatic life with long lasting effects. |

2.2. Label elements

Using the Toxicity Data listed in section 11 & 12 the product is labelled as follows.

**Warning**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H341 Suspected of causing genetic defects.
 H411 Toxic to aquatic life with long lasting effects.

[Prevention]:

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P261 Avoid breathing dust / fume / gas / mist / vapours / spray.
 P264 Wash thoroughly after handling.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P273 Avoid release to the environment.
 P280 Wear protective gloves / eye protection / face protection.

[Response]:

P302+352 IF ON SKIN: Wash with soap and water.
 P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
 P308+313 IF exposed or concerned: Get medical advice / attention.
 P312 Call a POISON CENTER or doctor / physician if you feel unwell.
 P321 Specific treatment (see information on this label).
 P333 If skin irritation or a rash occurs:
 P337 If eye irritation persists:
 P362 Take off contaminated clothing and wash before reuse.
 P363 Wash contaminated clothing before reuse.
 P391 Collect spillage.

[Storage]:

P405 Store locked up.

[Disposal]:

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

2.3. Other hazards

This product contains no PBT/vPvB chemicals.

| |
|--------------------------------------------------|
| 3. Composition/information on ingredients |
|--------------------------------------------------|

This product contains the following substances that present a hazard within the meaning of the Workplace Safety and Health Act.

| Ingredient/Chemical Designations | Weight % | GHS Classification | Notes |
|-----------------------------------------------------------|----------|----------------------------------------------------------------------------------------|-------|
| Bisphenol F epoxy resin CAS Number: 0028064-14-4 | >50 | Skin Irrit. 2;H315 Eye Irrit. 2;H319 Skin Sens. 1;H317 Aquatic Chronic 2;H411 | [1] |
| o-Cresol glycidyl ether CAS Number: 0002210-79-9 | 2.5- <10 | Muta. 2;H341 Skin Irrit. 2;H315 Skin Sens. 1;H317 Aquatic Chronic 2;H411 | [1] |
| Epoxy resin CAS Number: 0025068-38-6 | 2.5- <10 | Eye Irrit. 2;H319 Skin Irrit. 2;H315 Skin Sens. 1;H317 Aquatic Chronic 2;H411 | [1] |
| Amorphous silica, hydrophobic CAS Number: 0067762-90-7 | 1- <2.5 | | [1] |
| Amorphous fumed silica CAS Number: 0112945-52-5 | 1- <2.5 | | [1] |

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the Hazard (H) phrases are shown in Section 16.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence do not require reporting in this section.

4. First aid measures

4.1. Description of first aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention.

Never give anything by mouth to an unconscious person.

Inhalation

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Skin Contact

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognised skin cleanser. Do NOT use solvents or thinners.

Eye Contact

Irrigate copiously with clean fresh water for at least 10 minutes, holding the eyelids apart and seek medical attention.

Ingestion

If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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

No data available

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

No data available

5. Fire-fighting measures

5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO₂, powder, water spray.

Do not use - water jet.

Note; Fire will produce dense black smoke. Decomposition products may be hazardous to health. Avoid exposure and use breathing apparatus as appropriate.

Cool closed containers exposed to fire by spraying them with water. Do not allow run off water and contaminants from fire fighting to enter drains or water courses.

5.2. Special hazards arising from the substance or mixture

Fire will produce dense black smoke. Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Avoid exposure and use breathing apparatus as appropriate.

5.3. Advice for fire-fighters

Cool closed containers exposed to fire by spraying them with water. Do not allow run off water and contaminants from fire fighting to enter drains or water courses.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ventilate the area and avoid breathing vapours. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, vermiculite. Place in closed containers outside buildings and dispose of according to relevant regulations. (See section 13).

Clean, preferably with a detergent. Do not use solvents.

Do not allow spills to enter drains or watercourses.

If drains, sewers, streams or lakes are contaminated, inform the relevant Environment Protection Agency.

Empty containers may contain product residues, including flammable or explosive vapours. Do not cut, puncture or weld on or near containers. All label warnings must be observed until the containers have been cleaned or reconditioned.

6.2. Environmental precautions

Do not allow spills to enter drains or watercourses.

6.3. Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapours. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations. (See section 13).

Clean, preferably with a detergent. Do not use solvents.

Do not allow spills to enter drains or watercourses.

If drains, sewers, streams or lakes are contaminated, inform the local water company immediately. In the case of contamination of rivers, streams or lakes the Environmental Protection Agency should also be informed.

7. Handling and storage

7.1. Precautions for safe handling

Handling

This coating contains solvents. Solvent vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Areas of storage, preparation and application should be ventilated to prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits.

In Storage

Handle containers carefully to prevent damage and spillage.

Naked flames and smoking should not be permitted in storage areas. It is recommended that fork lift trucks and electrical equipment are protected to the appropriate standard.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from the following materials: oxidising agents, strong alkalis, strong acids.

Avoid skin and eye contact. Avoid inhalation of vapours and spray mists. Observe label precautions. Use personal protection as shown in section 8.

Smoking, eating and drinking should be prohibited in all preparation and application areas.

Never use pressure to empty a container; containers are not pressure vessels.

There are no exposure scenarios, see details in section 1.

7.3. Specific end use(s)

Store in a well ventilated, dry place away from sources of heat and direct sunlight.

Store on concrete or other impervious floor, preferably with bunding to contain any spillage. Do not stack more than 3 pallets high.

Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in the original container or one of the same material.

Prevent unauthorised access.

8. Exposure controls and personal protection

8.1. Control parameters

From the listed Exposure Standards for Atmospheric Contaminants given in the Workplace Safety and Health(General Provisions) Regulations.

| Material | PEL (Short Term) | | PEL (Long Term) | | Comments |
|------------------|------------------|-------------------|-----------------|-------|----------|
| | ppm | mg/m ³ | ppm | mg/M3 | |
| Mica | - | - | - | 3 | |
| Titanium dioxide | - | - | - | 10 | |

(P) Peak exposure limit

(R) Suppliers Recommended Limit

(Sk) There is a risk of absorption through unbroken skin

(Sen) Sensitiser

(Cat1) Category 1 - established human carcinogen

(Cat2) Category 2 - probable human carcinogen

(Cat3) Category 3 - substances suspected of having carcinogenic potential

DNEL/PNEC values

No Data Available

8.2. Exposure controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapour below occupational exposure limits suitable respiratory protection must be worn.

Eye Protection

Wear safety eyewear, e.g. safety spectacles, goggles or visors to protect against the splash of liquids. Eyewear should comply with the appropriate standard.

Wear a full face shield if mixing or pouring operations pose a risk of splashes.

An eyewash station is suggested as a good work place practice.

Skin Protection

Gloves of an appropriate material should be worn during mixing and application.

Other

Overalls which cover the body, arms and legs should be worn. Skin should not be exposed. Barrier creams may help to protect areas which are difficult to cover such as the face and neck. They should however not be applied once exposure has occurred. Petroleum jelly based types such as Vaseline should not be used. All parts of the body should be washed after contact.

Respiratory Protection

When concentrations exceed the exposure limits shown above workers must wear appropriate approved respirators. Provision of other controls such as exhaust ventilation should be considered if practical.

Thermal hazards

No Data Available

9. Physical and chemical properties

| | |
|-------------------------------------------------|--------------------------------------------------------------------------------------|
| Colour | Grey Liquid |
| Odour | Smell of Solvent |
| Odour threshold | Not Measured |
| pH | N/A |
| Melting point / freezing point (°C) | Not Measured |
| Initial boiling point and boiling range (°C) | 108 |
| Flash Point (C) | 101 |
| Evaporation rate (Ether = 1) | Not Measured |
| Flammability (solid, gas) | Not Applicable |
| Upper/lower flammability or explosive limits | Lower Explosive Limit: No data available Upper Explosive Limit: No data available |
| Vapour pressure (Pa) | Not Measured |
| Vapour Density | Heavier than air. |
| Specific Gravity | 1.28 |
| Solubility in Water | Immiscible |
| Partition coefficient n-octanol/water (Log Kow) | Not Measured |
| Autoignition Temperature (C) | Not Measured |
| Decomposition temperature | Not Measured |
| Viscosity (cSt) | N/A |

9.2. Other information

No further information

10. Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

Stable under recommended storage and handling conditions (see section 7). When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide, carbon dioxide, oxides of nitrogen and smoke.

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid possible exothermic reactions.

10.3. Possibility of hazardous reactions

May react exothermically with: oxidising agents, strong alkalis, strong acids.

10.4. Conditions to avoid

Stable under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Keep away from the following materials: oxidising agents, strong alkalis, strong acids.

10.6. Hazardous decomposition products

Fire will produce dense black smoke. Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Avoid exposure and use breathing apparatus as appropriate.

11. Toxicological information

Acute toxicity

Exposure to solvent vapour concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

Based on the properties of the epoxy constituents and considering toxicological data on similar preparations this preparation may be an irritant and a skin and respiratory sensitizer. Low molecular weight epoxy constituents are irritating to eyes, mucous membranes and skin. Repeated skin contact may lead to irritation and sensitisation, possibly with cross-sensitisation to other epoxies.

The preparation has been assessed using the Acute Toxicity Data listed below, and classified for toxicological hazards accordingly. See section 2 for details.

| Ingredient | Oral LD50, mg/kg | Skin LD50, mg/kg | Inhalation Vapour LD50, mg/L/4hr | Inhalation Dust/Mist LD50, mg/L/4hr |
|----------------------------------------------|------------------|------------------|----------------------------------|-------------------------------------|
| Amorphous fumed silica - (112945-52-5) | 3,160.00, Rat | Not Available | Not Available | Not Available |
| Amorphous silica, hydrophobic - (67762-90-7) | 1,000.00, Rat | 2,000.00, Rat | Not Available | Not Available |
| Bisphenol F epoxy resin - (28064-14-4) | 2,000.00, Rat | Not Available | Not Available | Not Available |
| Epoxy resin - (25068-38-6) | 2,000.00, Rat | 2,000.00, Rabbit | Not Available | Not Available |
| o-Cresol glycidyl ether - (2210-79-9) | 4,000.00, Rat | Not Available | Not Available | Not Available |

| Item | Category | Hazard |
|-----------------------------|----------------|---------------------------------------|
| Acute Toxicity (mouth) | Not Classified | Not Applicable |
| Acute Toxicity (skin) | Not Classified | Not Applicable |
| Acute Toxicity (inhalation) | Not Classified | Not Applicable |
| Skin corrosion/irritation | 2 | Causes skin irritation. |
| Eye damage/irritation | 2 | Causes serious eye irritation. |
| Sensitization (respiratory) | Not Classified | Not Applicable |
| Sensitization (skin) | 1 | May cause an allergic skin reaction. |
| Germ toxicity | 2 | Suspected of causing genetic defects. |
| Carcinogenicity | Not Classified | Not Applicable |
| Reproductive Toxicity | Not Classified | Not Applicable |

| | | |
|-------------------------------------------------------------|----------------|----------------|
| Specific target organ systemic toxicity (single exposure) | Not Classified | Not Applicable |
| Specific target organ systemic Toxicity (repeated exposure) | Not Classified | Not Applicable |
| Aspiration hazard | Not Classified | Not Applicable |

12. Ecological information

12.1. Toxicity

The preparation has been assessed according to the GHS criteria and is classified as dangerous for the environment, using the toxicity data listed below.

There are no data available on the product itself.

The product should not be allowed to enter drains or water courses.

Aquatic Ecotoxicity

| Ingredient | 96 hr LC50 fish, mg/l | 48 hr EC50 crustacea, mg/l | ErC50 algae, mg/l |
|----------------------------------------------|---------------------------|----------------------------|-------------------|
| Bisphenol F epoxy resin - (28064-14-4) | 9.00, Oncorhynchus mykiss | 9.00, Daphnia magna | Not Available |
| o-Cresol glycidyl ether - (2210-79-9) | Not Available | Not Available | Not Available |
| Epoxy resin - (25068-38-6) | 3.10, Pimephales promelas | 1.40, Daphnia magna | Not Available |
| Amorphous silica, hydrophobic - (67762-90-7) | Not Available | Not Available | Not Available |
| Amorphous fumed silica - (112945-52-5) | Not Available | Not Available | Not Available |

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available

13. Disposal considerations

13.1. Waste treatment methods

Do not allow into drains or water courses. Wastes and empty containers should be disposed of in accordance with local regulations.

Using information provided in this data sheet advice should be obtained from the local Waste Regulation Authority as to whether special waste regulations apply.

14. Transport information

14.1. UN number 3082
14.2. UN proper shipping name 3082 Environmentally Hazardous Substance N.O.S. (contains liquid epoxy resins)
14.3. Transport hazard class(es)

Road and Rail Transport UN3082, 環境危害物質, N.O.S (含液態環氧樹脂), 第 9 級, 包裝等級 III, 危害化學品 .3Z

IMDG reference : **Class/Div 9** **Sub Class**

Ems F-A,S-F

ICAO/IATA **Class 9** **Sub Class**

14.4. Packing group III

14.5. Environmental hazards

Road and Rail Transport Environmentally Hazardous: Yes

IMDG reference : Marine Pollutant: Yes (Bisphenol F epoxy resin)

14.6. Special precautions for user
No further information

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not Applicable

15. Regulatory information

This product and all its components complies with the chemical and transport regulations from the country listed in section 1.3.

Other regulatory information specific to the hazardous chemical(s):

None noted.

16. Other information

The information on this SDS is based upon the present state of our knowledge and on current laws. The product should not be used for purposes other than shown in the product data sheet without first obtaining written advice.

It is always the responsibility of the user to take all necessary steps to meet the demands of applicable legislation.

The full text of the phrases appearing in section 3 is:

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H341 Suspected of causing genetic defects.

H411 Toxic to aquatic life with long lasting effects.

**This SDS is valid for 5 years from the revised date on page 1.
The revision date is in American format (e.g. MM/DD/YY).**

End of document



All information concerning this product and/or suggestions for handling and use contained herein are offered in good faith and are believed to be reliable. Akzo Nobel however makes no warranty as to the accuracy of and/or sufficiency of such information.