

## ASBESTOS FOR GOOCH CRUCIBLES

GHS Safety Data Sheet

Version No:3

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### Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### PRODUCT NAME

ASBESTOS FOR GOOCH CRUCIBLES

#### OTHER NAMES

2[Mg3-Si2-O5-(OH)4], "7-45 asbestos, chrysotile Avibest C", "7-45 asbestos, chrysotile Avibest C"

#### PROPER SHIPPING NAME

WHITE ASBESTOS (chrysotile, actinolite, anthophyllite, tremolite)

#### PRODUCT USE

NOTE: Substance Prohibited for Specific Uses [NOHSC - Australia].  
The use of asbestos in production has been progressively phased out.  
Ninety percent of asbestos used worldwide is chrysotile asbestos.  
Prior uses include textiles, various types of packings, woven brake linings, clutch facings, electric insulation, asbestos cement water pipe.  
Widely used in the manufacture of asbestos cement sheets.  
Previously used in thermal and noise insulation materials.  
Reinforcement of plastics including vinyl floor coverings, tiles.

#### SUPPLIER

Company: S D FINE- CHEM LIMITED

Address:

315- 317, T.V. INDUSTRIAL ESTATE,

248, WORLI,

MUMBAI- 400030.INDIA.

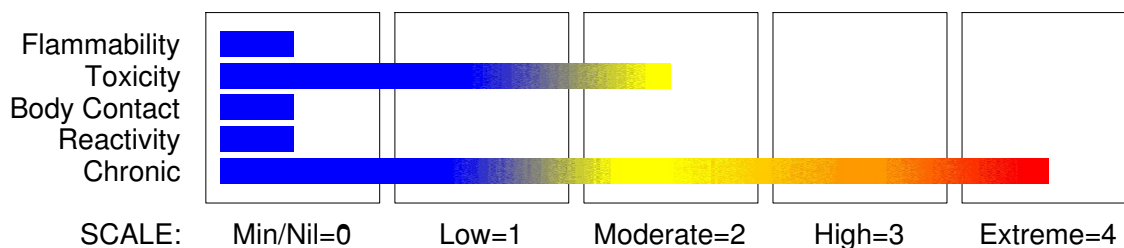
technical@sdfine.com

Telephone: 91- 22- 24959898

Telephone: 91- 22- 24959899

Fax: 91- 22- 24937232

#### HAZARD RATINGS



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## Section 2 - HAZARDS IDENTIFICATION

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### GHS Classification

Carcinogen Category 1A  
Organ Damage Category 1



### EMERGENCY OVERVIEW

#### HAZARD

DANGER

Determined by using GHS criteria:

H350 H372

May cause CANCER

Causes damage to organs through prolonged or repeated exposure by inhalation.

#### PRECAUTIONARY STATEMENTS

##### Prevention

Do not handle until all safety precautions have been read and understood.

Wash hands thoroughly after handling.

Obtain special instructions before use.

Do not breathe dust/fume/gas/mist/vapours/spray.

Use personal protective equipment as required.

Do not eat, drink or smoke when using this product.

##### Response

Get medical advice/attention if you feel unwell.

If exposed or concerned: Get medical attention advice.

##### Storage

Store locked up.

##### Disposal

Dispose of contents and container in accordance with relevant legislation.

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## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

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| NAME                                                                                | CAS RN     | %   |
|-------------------------------------------------------------------------------------|------------|-----|
| asbestos, white                                                                     | 12001-29-5 | >95 |
| Note: some Mn, Fe, Al replacement in unit cell occurs for the various mineral forms |            | <4  |

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## Section 4 - FIRST AID MEASURES

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### SWALLOWED

Rinse mouth out with plenty of water.

For advice, contact a Poisons Information Centre or a doctor.

- If swallowed do NOT induce vomiting.
- If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
- Observe the patient carefully.
- Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious
- Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
- Seek medical advice.

### EYE

If this product comes in contact with the eyes:

- Immediately hold eyelids apart and flush the eye continuously with running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
- Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.
- Transport to hospital or doctor without delay.
- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

### SKIN

If skin or hair contact occurs:

- Flush skin and hair with running water (and soap if available).
- Seek medical attention in event of irritation.

### INHALED

- If dust is inhaled, remove from contaminated area.
- Encourage patient to blow nose to ensure clear breathing passages.
- Ask patient to rinse mouth with water but to not drink water.
- Seek immediate medical attention.

### NOTES TO PHYSICIAN

Treat symptomatically.

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## Section 5 - FIRE FIGHTING MEASURES

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### EXTINGUISHING MEDIA

There is no restriction on the type of extinguisher which may be used.

### FIRE FIGHTING

Alert Fire Brigade and tell them location and nature of hazard.

- Wear full body protective clothing with breathing apparatus.
- Prevent, by any means available, spillage from entering drains or water courses.

Product is not combustible. No special firefighting procedures required.

Use fire fighting procedures suitable for surrounding area.

### FIRE INCOMPATIBILITY

No known incompatibility with normal range of industrial materials.

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## Section 5 - FIRE FIGHTING MEASURES

### Personal Protective Equipment

Gas tight chemical resistant suit.  
Limit exposure duration to 1 BA set 30 mins.

## Section 6 - ACCIDENTAL RELEASE MEASURES

### EMERGENCY PROCEDURES

#### MINOR SPILLS

Restrict access to area until completion of clean up. Post warning signs.  
Clear area of all unprotected personnel and move upwind.  
Avoid dust inhalation. SAA approved respiratory protection is essential.  
Avoid all personal contact and wear full protective equipment.  
Specific asbestos exhaust extraction fan required with High Efficiency Particulate Air (HEPA) filters.  
Use a wet method or an approved vacuum cleaning system with HEPA filters to pick up spills.  
Collect solid residues and seal in drums for disposal.  
Label clearly with Asbestos label.

#### MAJOR SPILLS

Clear area of personnel and move upwind.  
Alert Fire Brigade and tell them location and nature of hazard.  
Removal of asbestos should be undertaken in accordance with Worksafe recommendations, by registered contractors, and only where a permit has been issued for that particular location.  
Restrict access to area until completion of clean up.  
Post warning signs:- Asbestos Working Area-  
No Unauthorised Entry- Respiratory Protection Essential.  
SAA approved respiratory protection must be worn.  
Consider special asbestos exhaust extraction fan required with High Efficiency Particulate Air filter.  
Extraction equipment shall be operated continuously whilst removal enclosure is in place.  
Thoroughly wet down the spilled material.  
Wet removal method preferred- dry removal is less desirable.  
Collect all product and residues in suitably labelled and sealed containers.  
After clean up decontaminate and launder all protective clothing and equipment before storing and reusing.

### EMERGENCY RESPONSE PLANNING GUIDELINES (ERPG)

The maximum airborne concentration below which it is believed that nearly all individuals could be exposed for up to one hour WITHOUT experiencing or developing

life-threatening health effects is:

asbestos, white 2.5 mg/m<sup>3</sup>

irreversible or other serious effects or symptoms which could impair an individual's ability to take protective action is:

asbestos, white 0.5 mg/m<sup>3</sup>

other than mild, transient adverse effects without perceiving a clearly defined odour is:

asbestos, white 0.5 mg/m<sup>3</sup>

The threshold concentration below which most people will experience no appreciable risk of health effects:

asbestos, white 0.005 mg/m<sup>3</sup>

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## Section 6 - ACCIDENTAL RELEASE MEASURES

American Industrial Hygiene Association (AIHA)

Ingredients considered according to the following cutoffs

|                 |               |               |              |
|-----------------|---------------|---------------|--------------|
| Very Toxic (T+) | $\geq 0.1\%$  | Toxic (T)     | $\geq 3.0\%$ |
| R50             | $\geq 0.25\%$ | Corrosive (C) | $\geq 5.0\%$ |
| R51             | $\geq 2.5\%$  |               |              |
| else            | $\geq 10\%$   |               |              |

where percentage is percentage of ingredient found in the mixture

**Personal Protective Equipment advice is contained in Section 8 of the MSDS.**

## Section 7 - HANDLING AND STORAGE

### PROCEDURE FOR HANDLING

Wear personal protective equipment when handling.  
Avoid generating and breathing dust.  
Use good occupational work practice.  
Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.  
Avoid all personal contact, including inhalation.

### SUITABLE CONTAINER

Containers should comply with recommendations of Asbestos Code of Practice (Worksafe Australia).  
Usual recommendations are to 'double-bag' the asbestos and then put the bags into a metal drum which is clearly labelled as above. However there is no legal restriction on the type of container provided it is dust tight.  
Check that containers are clearly labelled with Asbestos label.

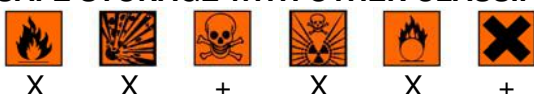
### STORAGE INCOMPATIBILITY

Segregate from strong acids.

### STORAGE REQUIREMENTS

Observe manufacturer's storing and handling recommendations.  
· Check that containers are clearly labelled.  
Store in original containers.  
Keep containers securely sealed.  
Protect containers against physical damage.  
Check regularly for spills and leaks.  
Store in a cool, dry and well-ventilated area.  
Store away from incompatible materials.  
Keep locked up.

### SAFE STORAGE WITH OTHER CLASSIFIED CHEMICALS



+: May be stored together

O: May be stored together with specific preventions

X: Must not be stored together

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## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

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### EXPOSURE CONTROLS

The following materials had no OELs on our records

- asbestos, white:

CAS:12001- 29- 5 CAS:1332- 21- 4

### MATERIAL DATA

WARNING: All forms of asbestos (including chrysotile) have been listed as HUMAN CARCINOGENS:

- Human Sufficient Evidence - International Agency for Research on Cancer.

Some jurisdictions require that health surveillance be conducted on occupationally exposed workers. Such surveillance should emphasise

- demography, occupational and medical history and health advice
- physical examination if indicated
- records of personal exposure

### PERSONAL PROTECTION



#### EYE

- Safety glasses.
- Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].

#### HANDS/FEET

- Barrier cream and Elbow length PVC gloves or Plastic gloves.
- PVC safety gumboots.

#### RESPIRATOR

Full face respirator with supplied air.

#### OTHER

Overalls.

Provide special vacuuming facilities for clothes and suitable laundering or disposal arrangements, change areas with dual lockering facilities and showers for use before changing into street clothes.

Keep records to define exposures and retain for at least 20 years. Provide preplacement and annual medical examinations for those exposed in the workplace to 8-hr TWA of 0.1 asbestos fibres/cc or greater which are >5 um in

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## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

length. Retain medical records for at least 20 years.

### RESPIRATOR

| Protection Factor | Half- Face Respirator | Full- Face Respirator | Powered Air Respirator |
|-------------------|-----------------------|-----------------------|------------------------|
| 10 x ES           | P1 Air- line*         | - -                   | PAPR- P1 -             |
| 50 x ES           | Air- line**           | P2                    | PAPR- P2               |
| 100 x ES          | -                     | P3                    | -                      |
|                   |                       | Air- line*            | -                      |
| 100+ x ES         | -                     | Air- line**           | PAPR- P3               |

\* - Negative pressure demand \*\* - Continuous flow.

The local concentration of material, quantity and conditions of use determine the type of personal protective equipment required.

For further information consult  
your

Occupational Health and Safety Advisor.

### ENGINEERING CONTROLS

No data for this material.

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

### APPEARANCE

A crystalline, serpentine mineral, or layered, hydrated magnesium silicate in fine fibre form (asbestiform).

It is resistant to heat, but will decompose and alter its microscopic fibre structure above 600 deg.C. Chrysotile dehydroxylates at 600-700 deg.C. Commercial asbestos consists of fibres of varying length.

### PHYSICAL PROPERTIES

Solid.

Does not mix with water.

Sinks in water.

Molecular Weight: 554.2

Melting Range (°C): Not applicable.

Solubility in water (g/L): Immiscible

pH (1% solution): Not applicable.

Volatile Component (%vol): Not applicable.

Relative Vapour Density (air=1): Not applicable.

Lower Explosive Limit (%): Not applicable

Autoignition Temp (°C): Not applicable

State: Divided solid

Boiling Range (°C): Not applicable.

Specific Gravity (water=1): 2.56

pH (as supplied): Not applicable

Vapour Pressure (kPa): Not applicable.

Evaporation Rate: Not applicable

Flash Point (°C): Non combustible

Upper Explosive Limit (%): Not applicable

Decomposition Temp (°C): Not available

Viscosity: Not available

## Section 10 - CHEMICAL STABILITY AND REACTIVITY INFORMATION

### CONDITIONS CONTRIBUTING TO INSTABILITY

- Presence of incompatible materials.
- Product is considered stable.
- Hazardous polymerisation will not occur.

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## Section 11 - TOXICOLOGICAL INFORMATION

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### POTENTIAL HEALTH EFFECTS

#### ACUTE HEALTH EFFECTS

##### SWALLOWED

Although ingestion is not thought to produce harmful effects (as classified under EC Directives), the material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health). Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, ingestion of insignificant quantities is not thought to be cause for concern.

##### EYE

Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).

##### SKIN

The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.

##### INHALED

The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.  
if exposure is prolonged.

#### CHRONIC HEALTH EFFECTS

On the basis of epidemiological data, the material is regarded as carcinogenic to humans. There is sufficient data to establish a causal association between human exposure to the material and the development of cancer.

The primary route of exposure is by inhalation of the dust and fibre.

White asbestos is known to cause fatal mesothelioma and fatal lung cancer, as being associated with cancer of colon, rectal, vocal-cord and kidney.

Repeated exposures to white asbestos will cause asbestosis, a lung-scarring characterised by shortness of breath with exertion and possible progression to disability and death. Asbestos fibres can accumulate in the lungs and can be distributed to other organs in the body.

Whilst large fibres are normally quickly eliminated from the upper airways, small fibres may lodge and remain deep in the lungs for years.

Chronic health effects can occur at any time after initial exposure, and often long after exposure has ceased, and can take months or years (as long as 7 to 50 years) to manifest themselves.

### TOXICITY AND IRRITATION

unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances.

#### TOXICITY

Inhalation (human) TCLo: 2.8 fibres/cc/5y- lungs  
, thorax and  
respiration.

#### IRRITATION

[RTECS]

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## Section 11 - TOXICOLOGICAL INFORMATION

WARNING: CARCINOGEN- HANDLE WITH EXTREME CAUTION.

WARNING: This substance has been classified by the IARC as Group 1: CARCINOGENIC TO HUMANS.

There is no safe level of exposure to a carcinogen therefore all contact with chrysotile should be reduced to the lowest possible level. [NJ Dept. of Health HSFS]

Fibres of length greater than 5 micrometers, with a length to diameter ratio of at least 3 are more hazardous and likely to cause asbestosis. [OSHA]

Tenth Annual Report on Carcinogens: Substance known to be Carcinogenic [National Toxicology Program: U.S. Dep. of Health and Human Services 2002].

## Section 12 - ECOLOGICAL INFORMATION

Asbestos is non-biodegradable by aquatic organisms. There is no evidence to suggest that asbestos bioaccumulates in aquatic organisms. In soil it does not have an absorptive affinity for the solids normally found in natural water systems.

Drinking Water Standards: No recommended health-based guideline value as not hazardous to human health at concentrations normally found in drinking water (WHO)

Soil Guidelines: none available.

Air Quality Standards: no safe level recommended because of carcinogenic properties.

## Section 13 - DISPOSAL CONSIDERATIONS

Consult State Land Waste Management Authority for disposal.

Label all shipping containers as per Code of Practice.

Dispose of according to relevant State regulations.

Bury sealed containers of residue in an authorized landfill.

Do not attempt to open containers nor reuse containers.

## Section 14 - TRANSPORTATION INFORMATION



Labels Required: MISCELLANEOUS  
HAZCHEM: 2X

### UNDG:

Dangerous Goods Class: 9

UN Number: 2590

Subrisk:

Packing Group:

None

III

Shipping Name: WHITE ASBESTOS (chrysotile, actinolite, anthophyllite, tremolite)

### Air Transport IATA:

ICAO/IATA Class:

9

UN/ID Number:

2590

Special provisions:

A61

ICAO/IATA Subrisk:

Packing Group:

None

III

Shipping Name: WHITE ASBESTOS (CHRYSTILE, ACTINOLITE, ANTHOPHYLLITE, TREMOLITE) †

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## Section 14 - TRANSPORTATION INFORMATION

### Maritime Transport IMDG:

|                                                                                  |            |                     |      |
|----------------------------------------------------------------------------------|------------|---------------------|------|
| IMDG Class:                                                                      | 9          | IMDG Subrisk:       | None |
| UN Number:                                                                       | 2590       | Packing Group:      | III  |
| EMS Number:                                                                      | F- A, S- A | Special provisions: | 168  |
| Shipping Name: WHITE ASBESTOS (chrysotile, actinolite, anthophyllite, tremolite) |            |                     |      |

## Section 15 - REGULATORY INFORMATION

### REGULATIONS

asbestos, white (CAS: 12001-29-5) is found on the following regulatory lists;  
WHO Guidelines for Drinking-water Quality - Chemicals for which guideline values have not been established

asbestos, white (CAS: 1332-21-4) is found on the following regulatory lists;  
International Agency for Research on Cancer (IARC) Carcinogens  
OECD Representative List of High Production Volume (HPV) Chemicals  
WHO Guidelines for Drinking-water Quality - Chemicals for which guideline values have not been established

## Section 16 - OTHER INFORMATION

### INGREDIENTS WITH MULTIPLE CAS NUMBERS

| Ingredient Name | CAS                       |
|-----------------|---------------------------|
| asbestos, white | 12001- 29- 5, 1332- 21- 4 |

The above information is believed to be accurate and represent the best information currently available to us, but does not represent any warranty expressed or implied of the properties of the product. User should make their own investigation to determine the suitability of the information for their particular purpose.

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