

ABRASIVE SPECIALITIES LTD.

Manufacturers and Suppliers of
Specialised Abrasive Products

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MATERIAL SAFETY DATA SHEET

This data sheet covers:-

Resin Bonded Abrasive Cutting Off Wheels of the reinforced or non-reinforced variety and Type 27 Abrasive Depressed Centre Grinding Discs.

Composition

Abrasive : Either Alpha aluminium oxide - Al_2O_3 ,
or silicon carbide - SiC
or aluminium/zirconium oxide

The above abrasives are non-toxic and any dust therefrom is classed as a nuisance dust. (T.L.V. is $10mg/M^3$)

Bond : Fully cured phenolic resin system - this is non-toxic in the fully cured state.

Fillers : All the fillers used are considered to be non-toxic with the exception of those containing barium or fluoride.

When present the barium is in the form of barium sulphate and in this form it is considered to be non-toxic.

The fluoride containing fillers constitute less than 15% by weight of the abrasive product. If the atmospheric dust level is kept below the $10mg/M^3$ hygiene level, then the fluoride levels in the atmosphere will not present any risk to health.

The dust generated by the abrasive product during the cutting/grinding operation is considered to be a nuisance dust with a T.L.V. of $10mg/M^3$.

Reinforcement : Woven glass fibre mesh - non-toxic.

Physical Properties

Specific Gravity : 2.0 to 3.0

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Physical Properties (Cont'd)

Water Solubility : Very slight only

Odour : Almost odourless

Appearance : Hard solid

Fire/Explosion Data

Flash Point : Not applicable

Extinguishing Media : Water spray or jet or other chemical extinguishing media.

Special Procedures : Avoid inhaling any gases evolved - use suitable breathing apparatus, eg face masks.

First Aid

Eyes : Irritant. Treat as any foreign body in the eye. Wash with copious quantities of clean water. If irritation persists obtain medical advice.

Skin : Wash well with soap and water.

Inhalation : Non-toxic, classed as a nuisance dust and, as such, may aggravate respiratory complaints.

May cause throat or chest irritation if exposure is high or prolonged.

If breathing is difficult, move to fresh air and obtain medical advice.

Ingestion : Non-toxic but should be avoided.

Handling, Use and Disposal

Spillage : Dispose in general waste skip.

Disposal : Land fill tip or as for general factory waste.

Storage : Store in dry conditions.

Use : When dry grinding or cutting, ensure adequate local exhaust ventilation to remove any fumes produced. Refer to Abrasive Industries Association leaflet SLO3 - Safety in the use of Abrasive Cutting Off Wheels and Depressed Centre Discs.

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Control Measures

- Ventilation : Good local exhaust ventilation is essential for dry grinding operations. If dust control is not adequate, use a face mask or other breathing apparatus.
- Eye Protection : This is essential. Use approved safety goggles.
- Gloves : As required.
- Other : Hearing protection as required.
- Always practice good personal hygiene.

Ref: ESR.7/89