

**C.D.S. CONSULTANTS
BWLCH TOCYN FARMHOUSE
BWLCH TOCYN
ABERSOCH
GWYNNED
NORTH WALES
LL53 7BN**

PRODUCT NAME

ALUMAC BROWN

MAIN INTENDED USE

OUR OWN COMMERCIAL BROWN ALUMINA FOR FAST CLEANING ON ALUMINIUM AND OTHER NON – FERROUS METALS, WHERE A MINIMUM OF CONTAMINATION IS REQUIRED, BUT A HIGH DEGREE OF REMOVAL IS NEEDED.

TYPICAL TREATMENTS FOR FABRICATIONS, FORGINGS CASTINGS, STAINLESS STEEL WORK, NON - SLIP FLOORS, GRINDING WHEELS, SAFE MANUFACTURE AND LAPIDARY PROCESS.

CHEMICAL ANALYSIS

TYPICAL CHEMICAL ANALYSIS

| COMPOUND/ ELEMENT | CHEMICAL/ FORMULA | TYPICAL CONTENT |
|------------------------------------|---------------------------------------|------------------------|
| ALUMINIUM OXIDE | Al₂O₃ | 95.00% |
| SILICON DIOXIDE | SiO₂ | 00.60% - 01.20% |
| TITANIUM OXIDE | TiO₂ | 03.00% - 03.50% |
| IRON (III) OXIDE | Fe₂O₃ | 00.40% MAXIMUM |
| CALCIUM/MAGNESIUM OXIDE | CaO/MgO | 00.60% |
| SODIUM/POTASSIUM OXIDE | Na₂O/K₂O | TRACES |

PHYSICAL PROPERTIES

| | |
|------------------------------|-------------------------------------|
| BULK DENSITY UNTAMPED | 1.64 – 1.80 g/cm₃ |
| SHAPE | CUBICAL |
| COLOUR | BROWN |
| SPECIFIC GRAVITY | 3.95 g/cm₃ |
| HARDNESS | 9.00 Mohs (2000 Knoop) |

SIZE RANGE AVAILABLE

INDIVIDUAL AND BLENDED SIZES FROM 8 – 220. (FEPA) 240F (UNCONTROLLED) AVAILABLE.

PACKAGING

PACKED IN 25KG PAPER BAGS.

HEALTH AND SAFETY INFORMATION

INTRODUCTION

THE MATERIAL IS SUPPLIED IN GRANULAR/LUMP FORM.

POTENTIAL HAZARDS

THE MATERIAL IS NOT CONSIDERED TO BE HAZARDOUS IN NORMAL USE, BUT THE FOLLOWING POTENTIAL HAZARDS SHOULD BE RECOGNISED.

DUST – INHALATION (SEE BELOW)

SKIN IRRITATION IN SUSCEPTIBLE INDIVIDUALS

NOXIOUS FUMES EVOLVED DURING FIRE

DUST INHALATION

ALL DUSTS HAVE BEEN ASIGNED EXPOSURE LIMITS. THE EXPOSURE LIMITS FOR ALUMINA ARE STILL UNDER REVIEW. THE FOLLOWING INFORMATION HAS BEEN TAKEN FROM GUIDANCE NOTE E.H. 40/89 FROM THE HEALTH AND SAFETY EXECUTIVE (OCCUPATIONAL EXPOSURE LIMITS 1989 TABLE 4, PARAGRAPH 23).

LONG TERM EXPOSURE LIMITS – 8 HOURS T.W.A. – TIME WEIGHTED AVERAGE.

REFERENCE PERIOD MgM₃ =10

SHORT TERM EXPOSURE LIMITS – 10 MINUTES.

REFERENCE PERIOD MgM₃ =20

DUST INHALATION FOR MACBLAST – WORKING TO REGULATION 7 OF COSHH GENERAL APPROVED CODES OF PRACTISE AND INFORMATION TAKEN FROM E.H. 40/93 OCCUPATIONAL EXPOSURE LIMITS 1993. THE OCCUPATIONAL LIMITS ARE AS FOLLOWS :-

LONG TERM EXPOSURE – 8 HOURS T.W.A. TOTAL INHALABLE DUST – 10 mgM₃

SHORT TERM EXPOSURE LIMITS – 8 HOURS T.W.A. RESPIRABLE DUST – 5 mgM₃

IN THE EVENT OF EXPOSURE TO LEVELS ABOVE THOSE STATED ABOVE, EVACUATE INDIVIDUALS CONCERNED TO A DUST FREE ENVIRONMENT, PREFERABLY INTO FRESH AIR – IF RESPIRATORY DIFFICULTIES ARE ENCOUNTERED SEEK MEDICAL ADVICE IMMEDIATELY. WE RECOMMEND THE USE OF APPROVED DUST MASKS OR WHERE ABRASIVE BLASTING OPERATIONS ARE CONDUCTED THEN APPROPRIATE EXTRACTION PLANT SHOULD BE UTILISED OR APPROVED BREATHING APPARATUS.

HEALTH AND HYGIENE

INHALATION OF DUST SHOULD BE AVOIDED AND SMOKING SHOULD NOT BE PERMITTED IN AREAS WHERE THE MATERIAL IS BEING USED.

THE MATERIAL SHOULD NOT BE INGESTED AND FOR THIS REASON THE PREPARATION AND CONSUMPTION OF FOOD AND DRINK IN WORKING AREAS SHOULD NOT BE ALLOWED.

AS WITH ANY INDUSTRIAL PRODUCT, CONTACT WITH SKIN CAN CAUSE IRRITATION LEADING IN SOME CASES TO DERMATITIS (REF 7.1) AND IT IS WISE TO TAKE THE USUAL PRECAUTIONARY MEASURES OF OBTAINING MEDICAL CLEARANCE FOR EMPLOYEES WHO HAVE A HISTORY OF SKIN DISEASE OR ALLERGY. SKIN CONTACT SHOULD THEREFORE BE AVOIDED AS MUCH AS POSSIBLE. EMOLLIENT SUCH AS WHITE PETROLIUM JELLY (VASELINE) IS USEFUL TO MINIMISE DRYNESS OF THE SKIN.

STORAGE AND HANDLING

STORAGE : THE MATERIAL IS NORMALLY SUPPLIED IN MULTI – PLY PAPER SACKS, EACH CONTAINING 25KGS, OR IN THE CASE OF MACBLAST, THE MATERIAL IS PACKED IN 25KGS POLYTHENE BAGS. THEY SHOULD BE STORED IN DRY CONDITIONS AND AWAY FROM SOURCES OF HEAT. ALTERNATIVE PACKAGING IS AVAILABLE UPON REQUEST. MACBLAST SHOULD NOT BE STORED OUTSIDE UNLESS PROTECTED FROM WET CONDITIONS AND OR EXCESS SUN BY COVERING WITH A TARPAULIN OR OTHER SUCH DEVICE TO PREVENT SOLAR DAMAGE TO PACKAGING.

HANDLING : PROLONGED CONTACT WITH THE SKIN SHOULD BE AVOIDED AND PROTECTIVE CLOTHING SUCH AS OVERALLS AND PVC OR COTTON – CHROME GLOVES SHOULD ALWAYS BE WORN. FACE MASKS SHOULD BE WORN WHEN DUST IS LIKELY TO BE CREATED. GLOVES ARE ADVISED WHEN HANDLING MACBLAST IN ITS UNPACKED FORM.

FIRST AID TREATMENT

MEDICAL TREATMENT : IT IS IMPORTANT THAT MEDICAL STAFF CONCERNED SHOULD BE FULLY ADVISED OF THE NATURE OF THE MATERIAL INVOLVED. FIRST AID TREATMENT SHOULD BE SOUGHT WHENEVER THERE IS AN ACCIDENT AND QUALIFIED MEDICAL ATTENTION OBTAINED WHERE NECESSARY.

EYE INJURY : IRRIGATE WITH COPIOUS QUANTITIES OF WATER FOR AT LEAST TEN MINUTES AND OBTAIN MEDICAL ADVICE IF IRRITATION PERSISTS OR IF THERE IS ANY TISSUE DAMAGE.

ACCIDENTAL INGESTION : RINSE MOUTH WITH WATER AND OBTAIN MEDICAL ADVICE IMMEDIATELY.

SKIN CONTACT : WASH WITH PLENTY OF WATER OR SOAP AND WATER. IF IRRITATION PERSISTS OR ANY SIGN OF TISSUE DAMAGE IS APPARENT, OBTAIN MEDICAL ADVICE IMMEDIATELY.

WASTE DISPOSAL : THE MATERIAL IS NOT REGARDED AS NOTIFIABLE FOR THR PURPOSE OF THE CONTROL OF POLLUTION (SPECIAL WASTES) REGULATIONS 1980 SI 1709. IT CAN BE DISPOSED OF BY LOCAL AUTHORITY REGULATIONS.

REFERENCES : HSE PUBLICATIONS ON SAVE YOUR SKIN :

1 OCCUPATIONAL CONTACT DERMITITIS (REF MS (B)6)

2 WEAR GLOVES (REF MS(B)10)

3 GUIDANCE NOTE MS24

HEALTH SURVEILLANCE OF OCCUPATIONAL SKIN DISEASE.
AVAILABLE FROM HEALTH AND SAFETY EXECUTIVE.

**DUST IN THE WORK PLACE, GENERAL PRINCIPLES OF PROTECTION,
- GUIDANCE NOTE H40 1993 ISSUED BY HEALTH AND SAFETY
EXECUTIVE (REVISED ANNUALLY).**

SOURCES OF INFORMATION

**THE HEALTH AND SAFETY EXECUTIVE
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**WHILST EVERY CARE HAS BEEN TAKEN IN THE PREPARATION
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OCTOBER 1999

C.D.S. CONSULTANTS