

METCO PERKIN-ELMER -- METCO 52C-NS - 12% SILICON ALUMINUM ALLOY POWDER
MATERIAL SAFETY DATA SHEET
METCO PERKIN-ELMERNSN: 343900F017277
Manufacturer's CAGE: 39918
Part No. Indicator: A
Part Number/Trade Name: METCO 52C-NS

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General Information
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Item Name: 12% SILICON ALUMINUM ALLOY POWDER
Company's Name: METCO PERKIN-ELMER
Company's Street: 1101 PROSPECT AVENUE
Company's P. O. Box: 1006
Company's City: WESTBURY
Company's State: NY
Company's Zip Code: 11590-0201
Company's Emerg Ph #: (516) 334-1300
Company's Info Ph #: (516) 334-1300
Record No. For Safety Entry: 001
Tot Safety Entries This Stk#: 001
Date MSDS Prepared: 15AUG89
Safety Data Review Date: 31JUL91
Preparer's Company: METCO PERKIN-ELMER
Preparer's St Or P. O. Box: 1101 PROSPECT AVENUE
Preparer's City: WESTBURY
Preparer's State: NY
Preparer's Zip Code: 11590-0201
MSDS Serial Number: BKVKD

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Ingredients/Identity Information
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Proprietary: NO
Ingredient: ALUMINUM (SARA III)
Ingredient Sequence Number: 01
Percent: 88%
NIOSH (RTECS) Number: BD0330000
CAS Number: 7429-90-5
OSHA PEL: 15MG/M3 DUST/5 FUME
ACGIH TLV: 10MG/M3 DUST; 9192

Proprietary: NO
Ingredient: SILICON
Ingredient Sequence Number: 02
Percent: 12%
NIOSH (RTECS) Number: VW0400000
CAS Number: 7440-21-3
OSHA PEL: 15 MG/M3 TDUST
ACGIH TLV: 10 MG/M3 TDUST; 9293

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Physical/Chemical Characteristics
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Appearance And Odor: POWDER, NO ODOR.
Melting Point: 1000-1300F
Specific Gravity: 1.5

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Fire and Explosion Hazard Data
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Flash Point: NONE
Extinguishing Media: USE CLASS D FIRE EXTINGUISHER OR DRY SAND.
Special Fire Fighting Proc: TREAT AS A METALLIC FIRE.
Unusual Fire And Expl Hazrds: MODERATE FIRE HAZARD IN THE FORM OF DUST
WHEN EXPOSED TO STRONG OXIDIZERS. ALUMINUM POWDER & SILICON ARE CLASSIFIED
AS FLAMMABLE SOLID.

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Reactivity Data
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Stability: YES
Cond To Avoid (Stability): MOISTURE
Materials To Avoid: OXIDIZERS
Hazardous Decomp Products: OZONE, NITRIC OXIDE, FROM PLASMA FLAME &
HYDROGEN.
Hazardous Poly Occur: NO

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Health Hazard Data
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Route Of Entry - Inhalation: YES
Route Of Entry - Skin: NO
Route Of Entry - Ingestion: NO
Health Haz Acute And Chronic: EYES/INGESTION: IRRITATION. SKIN: DERMATITIS
& IRRITATION. INHALATION: RESPIRATORY IRRITATION, SHAVERS DISEASE &
PNEUMOCONIOSIS. MAY BE INPLICATED IN ALZHEIMERS DISEASE.
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NONE
Signs/Symptoms Of Overexp: EYES/INGESTION: IRRITATION. SKIN: DERMATITIS &
IRRITATION. INHALATION: RESPIRATORY IRRITATION, SHAVERS DISEASE &
PNEUMOCONIOSIS. MAY BE INPLICATED IN ALZHEIMERS DISEASE.
Emergency/First Aid Proc: EYES: FLUSH W/PLENTY OF WATER. SKIN: WASH W/
SOAP & WATER. INHALATION: REMOVE TO FRESH AIR. INGESTION: OBTAIN MEDICAL
ATTENTION IN ALL CASES.

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Precautions for Safe Handling and Use
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Steps If Matl Released/Spill: WET MOP THE AREA TO REMOVE MATERIALS FROM
BECOMING A SOURCE OF AIR CONTAMINATION. SPILLED MATERIAL ONTO THE FLOOR MAY
BECOME AIRBORNE BY NORMAL PLANT ACTIVITY.
Waste Disposal Method: DISPOSE OF IN ACCORDANCE W/LOCAL, STATE, & FEDERAL
REGULATIONS.
Precautions-Handling/Storing: STORE AWAY FROM INCOMPATIBLES. HOWEVER,
STORE IN A COOL & DRY AREA. PRODUCT IS DANGEROUS WHEN WET, RELEASES
HYDROGEN.
Other Precautions: DON'T TAKE INTERNALLY. AVOID CONTACT W/SKIN.

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Control Measures
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Respiratory Protection: USE A NIOSH APPROVED RESPIRATOR FOR DUST, FUMES,
&MISTS DURING THE THERMAL SPRAY PROCESS.
Ventilation: EQUIPMENT DESIGNED TO CREATE AN AIR VELOCITY OF 200 PPM.
Protective Gloves: ALUMINIZED
Eye Protection: LENS SHADES SEE SUPP
Other Protective Equipment: EAR PROTECTION, ALUMINIZED APRON, & EYE WASH
STATION.
Work Hygienic Practices: PRACTICE GOOD HOUSEKEEPING.

Suppl. Safety & Health Data: LENS SHADES: COMBUSTION SPRAYING SHADE 5,
PLASMA SPRAYING UP TO 40 KW SHADE 9, 40 TO 60 KW SHADE 10, & >60 KW SHADE
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Transportation Data
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Disposal Data
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Label Data
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Label Required: YES

Label Status: G

Common Name: METCO 52C-NS

Special Hazard Precautions: EYES/INGESTION: IRRITATION. SKIN: DERMATITIS &
IRRITATION. INHALATION: RESPIRATORY IRRITATION, SHAVERS DISEASE &
IRRITATION. SKIN: DERMATITIS & IRRITATION. INHALATION: RESPIRATORY
IRRITATION, SHAVERS DISEASE & PNEUMOCONIOSIS. MAY BE INPLICATED IN
ALZHEIMERS DISEASE.

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