

HOBART BROTHERS CO -- HOBART 418 -- 3439-01-039-3494

===== Product Identification =====

Product ID:HOBART 418

MSDS Date:02/01/1992

FSC:3439

NIIN:01-039-3494

MSDS Number: BNKCR

=== Responsible Party ===

Company Name:HOBART BROTHERS CO

Address:600 W MAIN ST

City:TROY

State:OH

ZIP:45373

Country:US

Info Phone Num:513-332-4000

Emergency Phone Num:513-332-4000

CAGE:28835

=== Contractor Identification ==

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Company Name:HOBART BROTHERS CO

Address:600 W MAIN ST HOBART SQUARE

Box:City:TROY

State:OH

ZIP:45373

Country:US

Phone:513-339-6000

CAGE:28835

===== Composition/Information on Ingredients =====

Ingred Name:IRON

CAS:7439-89-6

RTECS #:NO4565500

Fraction by Wt: 60-100%

OSHA PEL:5 MG/CUM RESPIRABLE

ACGIH TLV:10 MG/CUM

Ingred Name:MANGANESE, MN COMPOUNDS

CAS:7439-96-5

RTECS #:OO9275000

Fraction by Wt: 1-5%

OSHA PEL:5 MG/CUM (DUST)

ACGIH TLV:5 MG/CUM (DUST)

Ingred Name:CALCIUM C

ARBONATE, DOMOLITE, LIMESTONE, WHITING  
CAS:1317-65-3  
RTECS #:EV9580000  
Fraction by Wt: 5-10%  
OSHA PEL:15 MG/CUM (DUST)  
ACGIH TLV:10 MG/CUM (DUST)

Ingred Name:SILICATE BINDERS (SODIUM SILICATE) \*93-1\*  
CAS:1344-09-8  
Fraction by Wt: 1-5%  
ACGIH TLV:10 MG/CUM

Ingred Name:CALCIUM FLUORIDE, FLUORSPAR, CALCIUM DIFLUORIDE, IRTRAN 3,  
LIPARITE  
CAS:7789-75-5  
RTECS #:EW1760000  
Fraction by Wt: 5-10%  
Other REC Limits:2.5 MG/CUM (AS F)  
OSHA PEL:2.5 MG/CUM (AS F)  
ACGIH TLV:2.5 MG/CUM (AS F)

Ingred Name:  
e:AMORPHOUS FUSED SILICA, SILICON DIOXIDE, QUARTZ, SILICON  
INTENDED CHANGE (IC)  
CAS:60676-86-0  
RTECS #:VV7328000  
Fraction by Wt: 1-5%  
Other REC Limits:30 MG/CUM TOTAL DUST  
OSHA PEL:10 MG/CUM (RESP)  
ACGIH TLV:0.1 MG/CUM (RESP) IC

Ingred Name:POTASSIUM SILICATE, POTASSIUM METASILICATE \*93-1\*  
CAS:1312-76-1  
Fraction by Wt: 3-7%

Ingred Name:SILICON  
CAS:7440-21-3  
RTECS #:VW0400000  
Fraction by Wt: 0.5-1.5%  
OSHA PEL:10 MG/CUM  
ACGIH TLV:10 MG/CUM

===== Hazards Identification

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Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:INHALATION: SIDEROSIS, PULMONARY  
EDEMA, BRONCHITIS. MANGANESE CAN CAUSE METAL FUME FEVER. ARC RAYS  
CAN INJURE/BURN SKIN & EYES. LONG TERM EXPOSURE: BRONCHIAL ASTHMA,  
LUNG FIBROSIS, SIDEROSIS, MANGANIS M, OSTEOPOROSIS, MOTTILING OF  
TEETH, DERMATITIS, PNEUMONIA.  
Explanation of Carcinogenicity:NONE  
Effects of Overexposu  
re:INHALATION: DISCOMFORT, DIZZINESS, NAUSEA,  
DRYNESS, NOSE/THROAT/EYES IRRITATION, NASAL SEPTUM PERFORATION,  
MUSCLE WEAKNESS, TREMORS. METAL FUME FEVER: CHILLS, FEVER, UPSET  
STOMACH, VOMITING, THROAT IR RITATION, BODY ACHES. SKIN:  
IRRITATION,ULCERATION.

===== First Aid Measures =====

First Aid:EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY THE AMERICAN RED  
CROSS. EYES/SKIN: IF IRRITATION OR FLASH BURNS DEVELOP AFTER  
EXPOSURE, CONSULT A  
PHYSICAN. OBTAIN MEDICAL ATTENTION IN ALL  
CASES.

===== Fire Fighting Measures =====

Unusual Fire/Explosion Hazard:NON FLAMMABLE. WELDING ARC & SPARKS CAN  
IGNITE COMBUSTIBLES.

===== Handling and Storage =====

Handling and Storage Precautions:ELECTRIC SHOCK CAN KILL. TRAIN THE  
WELDER NOT TO TOUCH LIVE ELECTRICAL PARTS, TO INSULATE HIMSELF FROM  
WORK/GROUND, & TO KEEP HIS HEAD OUT OF FUMES.  
Other Precautions:ON  
E RECOMMENDED WAY TO DETERMINE THE COMPOSITION &  
QUANTITY OF FUMES & GASES TO WHICH WORKERS ARE EXPOSED IS TO TAKE  
AN AIR SAMPLE INSIDE THE WELDER'S HELMET IF WORN OR IN THE WORKER'S  
BREATHING ZONE.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:USE NIOSH APPROVED OR EQUIVALENT/AIR SUPPLIED  
RESPIRATOR WHEN WELDING IN CONFINED SPACE.  
Ventilation:LOCAL EXHAUST AT THE ARC TO KEEP