

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

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===== 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

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===== 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 Nam

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

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===== 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, MOTTLING OF
TEETH, DERMATITIS, PNEUMONIA.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:

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 IRRITATION, BODY ACHES. SKIN:
IRRITATION,ULCERATION.

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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
PHYSICIAN. OBTAIN MEDICAL ATTENTION IN ALL
CASES.

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Fire Fighting Measures

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

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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

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.

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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