

BUEHLER LTD -- PHENOLIC POWDER 20-3200 RED -- 9330-01-103-3145

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

Product ID:PHENOLIC POWDER 20-3200 RED

MSDS Date:10/11/1990

FSC:9330

NIIN:01-103-3145

MSDS Number: BSYLY

=== Responsible Party ===

Company Name:BUEHLER LTD

Address:41 WAUKEGAN RD

Box:1

City:LAKE BLUFF

State:IL

ZIP:60044-1687

Country:US

Info Phone Num:708-295-6500 / FAX 708-295-7979

Emergency Phone Num

:708-295-6500

Preparer's Name:TOM DERAM

CAGE:09410

=== Contractor Identification ===

Company Name:BUEHLER LTD.

Address:41 WAUKEGAN RD.

Box:City:LAKE BLUFF

State:IL

ZIP:60044-1687

Country:US

Phone:847-295-8500

CAGE:09410

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

Ingred Name:PARTICULATES NOT OTHERWISE REGULATED (NUISANCE DUST)

Fraction by Wt: 5-15% %

Other REC Limits:NONE RECOMMENDED

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 8990

Ingred Name:NON HAZARDOUS INGR

EDIENTS

Fraction by Wt: BALANCE

Other REC Limits:NONE RECOMMENDED

Ingred Name:PHENOL (SARA III) (EVOLVED DURING POLYMERIZATION OR DECOMPOSITION OF PRODUCT)

CAS:108-95-2

RTECS #:SJ3327000

Other REC Limits:NONE RECOMMENDED

OSHA PEL:S, 5 PPM

ACGIH TLV:S, 5 PPM; 9394

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:FORMALDEHYDE (SARA III) (EVOLVED DURING POLYMERIZATION OR DECOMPOSITION OF PRODUCT)

CAS:50-00-0

RTECS #:LP8925000

Other REC Limits:NONE RECOMMENDED

OSHA PEL:SEE 1910.104

8

ACGIH TLV:C 0.3 PPM; A2; 9394

EPA Rpt Qty:100 LBS

DOT Rpt Qty:100 LBS

Ingred Name:AMMONIA (SARA III) (EVOLVED DURING POLYMERIZATION OR DECOMPOSITION OF PRODUCT)

CAS:7664-41-7

RTECS #:BO0875000

Other REC Limits:NONE RECOMMENDED

OSHA PEL:50 PPM

ACGIH TLV:25 PPM/35 STEL; 9394

EPA Rpt Qty:100 LBS

DOT Rpt Qty:100 LBS

===== Hazards Identification =====

LD50 LC50 Mixture:TLV 5 MG/M3 RESPIRABLE DUST

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Repor

ts of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:VAPOR MAY BE IRRITATING TO SKIN EYES OR RESPIRATORY TRACT. VAPORS EVOLVED DURING POLYMERIZATION OR DECOMPOSITION MAY CAUSE IRRITATION TO EYES, LUNGS AND SKIN. PHENOL IS HIGHLY TOXIC AND MAY CAUSE KIDN EY, LIVER OR HEART DAMAGE. FORMALDEHYDEIS IRRITATING TO EYES, LUNGS AND SKIN AND MAY CAUSE CANCER. AMMONIA-IRRITANT.

Explanation of Carcinogenicity:AS SHIPPED/STORED PRODUCT IS NOT CARCINOGENIC.

VAPORS RELEASED UPON POLYMERIZATION/DECOMPOSITION CONTAIN FORMALDEHYDE.

Effects of Overexposure:EYE IRRITATION, SKIN IRRITATION, RESPIRATORY TRACT IRRITATION, KIDNEY DAMAGE, LIVER DAMAGE, HEART DAMAGE, MUCOUS MEMBRANE IRRITATION.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:INHALATION: REMOVE FROM EXPOSURE. RESTORE BREATHING. KEEP WARM AND QUIET. GET MEDICAL ATTENTION. SKIN: W

ASH AFFECTED AREA

THOROUGHLY WITH SOAP AND WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. EYES: FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. DILUTE BY DRINKING LARGE QUANTITIES OF WATER. GET MEDICAL ATTENTION.

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

Flash Point:NONFLAMMABLE

Lower Limits:.03 OZ/FT3

Upper Limits:NOT GIVEN

Extinguishing Media:WATER, FOAM, DRY CHEMICAL, CARBON DIOXIDE

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND FULL FACE-PIECE SELF-CONTAINED BREATHING APPARATUS. AVOID INHALATION OF VAPORS.

Unusual Fire/Explosion Hazard:ORGANIC DUST/AIR MIXTURES ARE HIGHLY FLAMMABLE (EXPLOSIVE). AVOID DUST ACCUMULATIONS OR DUST LADEN ATMOSPHERES AND SOURCES OF IGNITION.

=====
===== Accidental Release Measures =====

Spill Release Procedures:VACUUM OR SWEEP WITH SWEEPING COMPOUND, SWADUST OR SAND. AVOID GENERA

TING DUST. VACUUMS WITH EXPLOSION
PROOF MOTORS ARE RECOMMENDED.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE IN COOL, DRY PLACE. KEEP
CONTAINERS CLOSED TO AVOID CONTAMINATION.
Other Precautions:PREVENT ACCUMULATIONS OF DUST RAISED DURING
PROCESSING. USE WITH ADEQUATE VENTILATION.

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

Respiratory Protection
:IF VENTILATION DOES NOT MAINTAIN INHALATION
EXOSURES BELOW PEL (TLV), USE NIOSH/MSHA APPROVED RESPIRATOR AS PER
CURRENT 29 CFR 1910.134, INSTRUCTIONS/WARNINGS AND NIOSH RESPIRATOR
SELECTION.
Ventilation:LOCAL EXHAUST RO REMOVE DUST AND VAPORS EVOLVED DURING USE.
POINT SOURCES EXHAUST RECOMMENDED. USE EXPLOSION PROOF MOTOR
Protective Gloves:RECOMMENDED
Eye Protection:SAFETY GLASSES WITH SIDE SHIELDS
Other Protective Equipment:EYE WASH FACILITY
Work Hygienic Practices:WASH WITH SO
AP AND WATER AFTER HANDLING PRODUCT
AND BEFORE EATING DRINKING OR SMOKING.
Supplemental Safety and Health
MANUFACTURER STATES DOT HAZARD CLASS "NON-HAZARDOUS".

=====
===== Physical/Chemical Properties =====

HCC:N1
Boiling Pt:B.P. Text:NOT GIVEN
Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN
Vapor Pres:NOT GIVEN
Vapor Density:NOT GIVEN
Spec Gravity:1.32-2.20
Evaporation Rate & Reference:NOT GIVEN
Solubility in Water:NEGLIGIBLE
Appearance and Odor:GRANULAR, NODULAR, PELLET O

R BRIQUET WITH SLIGHT
PHENOL ODOR-RED.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid: YES
NONE SPECIFIED BY MANUFACTURER.

Stability Condition to Avoid: AVOID DUST BUILD UP IN STORAGE AND
MANUFACTURING AREAS.

Hazardous Decomposition Products: PHENOL, FORMALDEHYDE, AMMONIA, CARBON
MONOXIDE, CARBON DIOXIDE

===== Disposal Considerations =====

Waste Disposal Methods: PREVENT WASTE FROM CONTAMINATING
SURROUNDING

ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSAL CONTAINER OR
LINER IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department
of Defense. The United States of America in no manner whatsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this

document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.