



MATERIAL SAFETY DATA SHEET

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P-FFA

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CHEMICAL CODE: P-FFA
PRODUCT NAME: FREE FLOW ADDITIVE
MATERIAL SAFETY DATA SHEET

EFFECTIVE DATE: MARCH 01, 2014



NFPA RATING:

HEALTH HAZARD: 1 FLAMMABILITY: 0 REACTIVITY: 0 OTHER:

0=INSIGNIFICANT 1=SLIGHT 2=MODERATE 3=HIGH 4=EXTREME

NOMINAL COMPOSITION:

CAS NUMBER

PROPRIETARY BLEND OF CRYSTALLINE SILICA & AMMONIUM COMPOUNDS

SECTION 1 - PHYSICAL DATA

CHEMICAL NATURE:	SOLID	FORM:	POWDER
COLOR:	WHITE	ODOR:	FAINT
VAP DENSITY (AIR= 1) :	>1	% SOL. IN WATER:	INSOLUBLE
PH:	2.6 TO 3 (1% SOLUTION)	SP. GRAVITY:	1.60
POUR PT.:	NOT DETERMINED	BOILING POINT:	NOT DETERMINED
VAP. PRESSURE:	NOT DETERMINED	WT% VOLATILE:	NOT DETERMINED

SECTION 2 - FIRE AND EXPLOSION HAZARD DATA

CHARACTERISTIC: SOLID

FLASH POINT > 120 DEG C (248 DEG F)

METHOD USED: N/A

FLAMMABLE LIMITS (STP IN AIR) LFL: NOT DETERMINED

UFL: NOT DETERMINED

EXTINGUISHING MEDIA: WATER SPRAY, ALCOHOL FOAM, CO₂, DRY CHEMICAL

SPECIAL FIRE FIGHTING EQUIPMENT AND HAZARDS: WEAR PROTECTIVE FIRE FIGHTING CLOTHING AND AVOID BREATHING VAPORS. USE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS IN CLOSED AREAS. EVACUATE AREA AND FIGHT FIRE FROM A SAFE DISTANCE. WATER SPRAY MAY BE USED TO KEEP FIRE-EXPOSED CONTAINERS COOL.



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SECTION 3 - REACTIVITY HAZARDS

STABILITY: THIS MATERIAL IS CONSIDERED STABLE UNDER NORMAL AMBIENT & ANTICIPATED STORAGE AND HANDLING CONDITIONS OF TEMPERATURE AND PRESSURE.

INCOMPATIBILITY: OXIDIZERS.

HAZARDOUS DECOMPOSITION: N/A

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

SECTION 4 - FIRST AID PROCEDURES

EYE CONTACT: IMMEDIATELY FLUSH EYES WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. SEE A DOCTOR AT ONCE.

SKIN CONTACT: WASH THOROUGHLY WITH SOAP AND WATER FOR AT LEAST 15 MINUTES, REMOVE CONTACT LENSES AND PROTECT UNHARMED EYE. SEE A DOCTOR IF IRRITATION OCCURS. WASH CLOTHES THOROUGHLY BEFORE REUSING.

SWALLOWING: IF SEVERAL GRAMS ARE SWALLOWED, INDUCE VOMITING WITH IPECAC (PREFERRED), OR BY GIVING WATER AND STICKING FINGER DOWN THROAT. AFTER VOMITING GIVE MILK (PREFERRED), OR WATER AND CONSULT PHYSICIAN.

INHALATION: REMOVE TO FRESH AIR. OXYGEN MAY BE ADMINISTERED IF BREATHING IS DIFFICULT. IF NOT BREATHING, ADMINISTER ARTIFICIAL RESPIRATION AND SEEK MEDICAL ATTENTION.

NOTES: NONE.

SECTION 5 - HANDLING PRECAUTIONS

PROTECTIVE EQUIPMENT CODE: Q1

VENTILATION: GENERAL AND LOCAL VENTILATION AS REQUIRED TO CONTROL DUST OR VAPORS. STORE IN A DRY, COOL AND WELL-VENTILATED AREA. KEEP AWAY FROM INCOMPATIBLES. KEEP CONTAINER TIGHTLY CLOSED AND DRY.

RESPIRATORY PROTECTION: USE NIOSH APPROVED RESPIRATOR WITH ORGANIC VAPOR/ ACID GAS PROTECTION (COLOR CODED YELLOW) IF VAPORS OR DUSTS ARE GENERATED AND FOR EMERGENCIES.

PROTECTIVE CLOTHING: CLEAN, BODY-COVERING PROTECTIVE CLOTHING/EQUIPMENT, IMPERVIOUS (RUBBER) GLOVES & CHEMICAL RESISTANT BOOTS.

EYE PROTECTION: CHEMICAL GOGGLES REQUIRED AND ENSURE THAT EYEWASH STATIONS & SAFETY SHOWERS ARE PROXIMAL TO THE WORK-STATION LOCATION.

EXPOSURE GUIDELINE(S): PROVIDE EXHAUST VENTILATION OR OTHER ENGINEERING CONTROLS TO KEEP THE AIRBORNE CONCENTRATIONS OF VAPORS OR PARTICLES BELOW THEIR RESPECTIVE THRESHOLD LIMIT VALUE.



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SECTION 6 - SPILL AND DISPOSAL PROCEDURE

CERCLA REPORTABLE QUANTITY: N/A

SPECIAL HANDLING: VACUUM OR CAREFULLY SCOOP INTO CONTAINERS. AVOID GENERATING DUST. PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. USE ONLY WITH ADEQUATE VENTILATION. STORE IN A DRY, COOL AND WELL-VENTILATED AREA. KEEP AWAY FROM INCOMPATIBLES. KEEP CONTAINER TIGHTLY CLOSED AND DRY. WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS.

DISPOSAL METHOD FOR:

PRODUCT: SHIP VIA PERMITTED WASTE HAULER TO PERMITTED HAZARDOUS WASTE DISPOSAL FACILITY FOR INCINERATION (PREFERRED) OR LANDFILLING.

EPA HAZARDOUS WASTE NUMBER: NONE.

CONTAINER: SEND EMPTY BAGS TO SANITARY LANDFILL. RENDER OTHER TYPES OF CONTAINERS UNUSEABLE BY PUNCTURING OR CRUSHING AND SEND TO SANITARY LANDFILL.

DEGRADABILITY: PARTIALLY BIODEGRADABLE.

FISH TOXICITY: LOW TOXICITY TO FISH.

ANIMAL TOXICITY: LOW TOXICITY TO MAMMALS.

SECTION 7 - TOXICOLOGY (ROUTES OF EXPOSURE)

PRINCIPAL HAZARD (E=EYE, S=SKIN, I=INHAL.): E, S, I

EYE CONTACT: IRRITANT. MAY CAUSE PAIN, REDNESS, AND DISCOMFORT.

SKIN CONTACT: IRRITANT. MAY CAUSE PAIN, REDNESS, AND DERMATITIS. NOT LIKELY TO BE ABSORBED IN TOXIC AMOUNTS.

SWALLOWING: SWALLOWING LARGE AMOUNTS MAY CAUSE ILLNESS. LD50 (RAT) GREATER THAN 5000 MG/KG.

INHALATION: PROLONGED OR REPEATED EXPOSURE MAY CAUSE IRRITATION.

OTHER: NONE.



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SECTION 8 - SPECIAL PRECAUTIONS AND ADDITIONAL INFORMATION

SPECIAL PRECAUTIONS: THESE PRODUCTS ARE CARBON OXIDES (CO, CO₂). NOT REGULATED AS FLAMMABLE OR COMBUSTIBLE.

PHYSICAL HAZARD: FIRE, WATER SLICK.

HANDLING AND STORAGE PRECAUTIONS: KEEP AWAY FROM HEAT, SPARKS, AND FLAME. KEEP CONTAINER CLOSED WHEN NOT IN USE. USE WITH ADEQUATE VENTILATION. DO NOT CUT OR WELD ON CONTAINER. KEEP MATERIAL DRY. POSSIBLE DUST EXPLOSION HAZARD.

PACKAGING INFORMATION: PAPER BAG (MINIMUM 3 PLY), OR OTHER INDUSTRIAL CONTAINER DESIGNED FOR POWDERS AND GRANULATED MATERIALS.

ADDITIONAL INFORMATION: NOT REGULATED BY DOT.

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