MATERIAL SAFETY DATA SHEET

221 Rochester Street Avon, New York 14414-9409 (585) 226-6177

MSDS No.: SS1085 SS1090

Effective Date: January 1, 2007 24 HOUR EMERGENCY ASSISTANCE

SECTION	IN I NAIVIE	24 HOU	K EIVIE	ERGENC	T ASSIS	IANC	, [
Product	Sulfur	\wedge	、 CI	HEMTREC			 1
Chemical Synonyms	Sulfur Flower, Sulfur Flour, Roll	1	<u>80</u>	00-424-9300 585-226-617		1	$\left\{ \right.$
Formula	S	NFP	у ,	000 220 011	Reactiv	rity 0	1
Unit Size	up to 2.5 Kg.	HAZARD RATING			IIS *	_	
C.A.S. No.	7704-34-9	MINIMAL 0	SLIGHT 1	MODERATE 2	SERIOUS 3	SEVERE 4	

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SECTION II INC	REDIENTS OF MI	XTUR	ES			
Principal Component(s)			%		TLV Units	
Sulfur			100%		See Section V.	
WARNING! FLAMMABLE SOLID! E	BURNING SULFUR EMITS	HIGHLY	TOXIC FUN	IES. S	SULFUR DUST	
SUSPENDED IN AIR IGNITES EASIL	Y. MAY CAUSE ALLERGI	IC REAC	TION.			
SECTION III PH	YSICAL DATA					

SECTION III	PHYSICAL DATA		
Melting Point (°F)	116°-121°C (242°-251°F)	Specific Gravity (H ₂ O = 1)	2.04-2.07 @ 21°C (70°F)
Boiling Point (°F)	444°C (831°F)	Percent Volatile by Volume (%)	Negligible.
Vapor Pressure (mm Hg)	0 @ 138°C (280°F)	Evaporation Rate (=1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	Insoluble.		
Appearance & Odor	Yellow powder, crystals or rolls (br	oken lumps); Faint odor o	of rotten eggs.

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SECTIO	N IV	FIRE AND	EXPLOSION HAZAR	D DATA	
Flash Point			Flammable Limits in Air	Lower	Upper
(Method Used)	207°C	(405°F) (C.C.)	% by Volume	3.3	46.0
Extinguisher Media	Use w	rater fog.			

SPECIAL FIREFIGHTING **PROCEDURES**

In fire conditions, wear a MIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Use water fog; avoid straight streams which will scatter molten sulfur and dust. Small fires may be extinguished with sand or additional sulfur. Fire can rekindle if not cooled below 154°C (310°F).

(2004 EMERGENCY RESPONSE GUIDEBOOK, RSPA P 5800.9, GUIDE PAGE NO. 133)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Easily ignitible, combustible solid. Dust or vapor forms explosive mixtures with air. Hazardous in contact with oxidizing materials, forming explosive mixtures. Explosion Hazard: Moderate, in the form of dust, when exposed to flames. Dangerous when heated it emits highly toxic fumes of oxides of sulfur; can react with oxidizing materials.

Autoignition Temperature: 248°C (478°F).

D.O.T. Sulfur. 9. NA1350. PG III

Emergence First Aid anything by with water SKIN: Rer medical att difficult, giv SECTIO Stability
Incompat (Materials Hazardou Decompo Hazardous May Occu
SECTIO Steps to be material is
Waste Dis
SECTIO Respiration P (Specify Type) Ventilatio Protective
Other Protective Equipment SECTIO Precautions in Handling Keep container tigh Other Precautions

Threshold Lin		_	
	nited Value	e No	one established. TLV: 10 mg/m ³ (total dust) or 5 mg/m ³ (respirable dust).
Effects of Ove	erexposure	cor	Ilfur is essentially non-toxic either through ingestion, inhalation or skin ntact. There are, however, some individuals who may be allergic and must t be permitted in the area of exposure. Sulfur is an eye irritant, but if prompt atment is applied no lasting injury will result. Target organs: None known.
with water for at SKIN: Remove	uth to an uncor least 15 minut contaminated n. INHALATIO	vor nscious tes, liftir clothing DN: Re	GESTION: Call physician or Poison Control Center immediately. Induce miting only if advised by appropriate medical personnel. Never give person. EYES: Check for and remove contact lenses. Flush thoroughly ng upper and lower eyelids occasionally. Get immediate medical attention. g. Flush thoroughly with mild soap and water. If irritation occurs, get emove to fresh air. If not breathing, give artificial respiration. If breathing is tention.
SECTION V	/	RF	EACTIVITY DATA
	stable		Conditions to Avoid Heat, sparks, open flames
St	table	Х	and other heat sources.
ncompatibilit Materials to			s violently with strong oxidizing agents. Corrosive to copper and copper Damp sulfur will corrode steel.
Hazardous Decompositio	on Product	:s	Sulfur dioxide.
lazardous Poly	ymerization		Conditions to Avoid
May Occur	Will Not Oc	cur	Not applicable.
SECTION V	X All	SE	PILL OR LEAK PROCEDURES
Steps to be ta material is rel	aken in cas	se	Lise non-sparking tools. Provide ventilation in spill area. Avoid
Waste Dispos	sal Method	Disci Thes	charge, treatment, or disposal may be subject to Federal, State or Local laws. se disposal guidelines are intended for the disposal of catalog-size quantities only.
Waste Dispos	sal Method	Thes Disp	charge, treatment, or disposal may be subject to Federal, State or Local laws. se disposal guidelines are intended for the disposal of catalog-size quantities only. pose of in an approved sanitary landfill after mixing 3 parts by weight of cium carbonate to neutralize the slow generation of sulfuric acid.
Waste Dispos		Disp calc	se disposal guidelines are intended for the disposal of catalog-size quantities only. pose of in an approved sanitary landfill after mixing 3 parts by weight of
SECTION V	/ ion None	Disp calc SP should	se disposal guidelines are intended for the disposal of catalog-size quantities only. pose of in an approved sanitary landfill after mixing 3 parts by weight of cium carbonate to neutralize the slow generation of sulfuric acid. PECIAL PROTECTION INFORMATION be needed in normal laboratory handling. If dusty conditions prevail, work
SECTION V Respiration Protect Specify Type)	(iion None in fum	Disp calc SP should ne hood	pose of in an approved sanitary landfill after mixing 3 parts by weight of cium carbonate to neutralize the slow generation of sulfuric acid. PECIAL PROTECTION INFORMATION be needed in normal laboratory handling. If dusty conditions prevail, work or wear a NIOSH/MSHA-approved respirator.
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SECTION V Respiration Protect Specify Type) Ventilation Protective Glo Other Protective Equipment SECTION IX Precautions to be in Handling & St	None in fum Local Exhaust Mechanical (Goves Smock,	Disp calco SP should to General) F apron, SP	pose of in an approved sanitary landfill after mixing 3 parts by weight of cium carbonate to neutralize the slow generation of sulfuric acid. PECIAL PROTECTION INFORMATION be needed in normal laboratory handling. If dusty conditions prevail, work or wear a NIOSH/MSHA-approved respirator. Recommended. Special No. Recommended. Other No. Rubber. Eye Protection Chemical safety glasses/goggles.
Respiration Protect (Specify Type) Ventilation Protective Glo Other Protective Equipment	Local Exhaust Mechanical (Goves Smock, X De Taken toring d when not in use.	Disp cald SP should ne hood t General) Apron, SP stood are a container of conta	pose of in an approved sanitary landfill after mixing 3 parts by weight of cium carbonate to neutralize the slow generation of sulfuric acid. PECIAL PROTECTION INFORMATION be needed in normal laboratory handling. If dusty conditions prevail, work or wear a NIOSH/MSHA-approved respirator. Recommended. Special No. Recommended. Other No. Rubber. Eye Protection Chemical safety glasses/goggles. eye wash station, vent hood, fire extinguisher. PECIAL PRECAUTIONS ore in a cool, dry, well-ventilated area away from heat, sparks, flames and didizing agents. Avoid creating dust. All electric motors in sulfur working as should be of the explosive proof type. Wash thoroughly after handling.
SECTION V Respiration Protect (Specify Type) Ventilation Protective Glo Other Protective Equipment SECTION IX Precautions to be in Handling & St Keep container tightly close	Local Exhaust Mechanical (Goves Smock, X De Taken toring ad when not in use. Read label or For laborator, Avoid co	Disp cald SP should ne hood t General) Sto oxion are a container by use only.	pose of in an approved sanitary landfill after mixing 3 parts by weight of cium carbonate to neutralize the slow generation of sulfuric acid. PECIAL PROTECTION INFORMATION be needed in normal laboratory handling. If dusty conditions prevail, work for wear a NIOSH/MSHA-approved respirator. Recommended. Special No. Recommended. Other No. Rubber. Eye Protection Chemical safety glasses/goggles eye wash station, vent hood, fire extinguisher. PECIAL PRECAUTIONS ore in a cool, dry, well-ventilated area away from heat, sparks, flames and idizing agents. Avoid creating dust. All electric motors in sulfur working as should be of the explosive proof type. Wash thoroughly after handling.

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