

MATERIAL SAFETY DATA SHEET

SODIUM PERSULFATE

THIS MATERIAL SAFETY DATA SHEET PROVIDED AS A GUIDE TO THE USER
PLEASE READ ENTIRE MSDS BEFORE USING THIS PRODUCT
PLEASE CONTACT THE TECHNICAL ASSISTANCE NUMBER FOR ANY ADDITIONAL INFORMATION
ALWAYS FOLLOW YOUR COMPANIES HEALTH AND SAFETY PLAN BEFORE WORKING WITH
THIS PRODUCT OR ANY OTHER CHEMICAL. ALWAYS WEAR THE APPROPRIATE SAFETY GEAR
WHEN WORKING WITH OR AROUND CHEMICALS.

Product Name:
SODIUM PERSULFATE
THIS MATERIAL IS MANUFACTURED BY
San Yuan Chemical Co.,Ltd.
Chia Yi, Taiwan
AND DISTRIBUTED BY:
Ayers International Corp.
Greenwich, Ct.

LAST REVISION DATE: 12/1/2008 11:03 AM
24 HOUR EMERGENCY RESPONSE: 1 800 424 9300

SECTION I IDENTIFICATION

PRODUCT NAME: SODIUM PERSULFATE
CHEMICAL FAMILY: INORGANIC PEROXYCOMPOUNDS
FORMULA: NA2S2O8

SECTION II— HAZARDOUS INGREDIENTS COMPOSITION

HAZARDOUS INGREDIENT CAS NO. PEL IDL PERCENT
SODIUM PERSULFATE 7775-27-1 >98%

SECTION III — HAZARD - PHYSICAL DATA -

APPEARANCE: WHITE CRYSTALS
PHYSICAL FORM: CRYSTALS
COLOR: WHITE
UEL/LEL: N/D
VAPOR PRESSURE: N/D
MELTING POINT: DECOMPOSED AT 292 DEG C
SOLUBILITY IN WATER: 70.2G/100G _ AQUA AT 20 DEG C
EVAPORATION RATE: N/A
SPECIFIC GRAVITY: 2.549 MOLECULAR WEIGHT: 238.1

SODIUM PERSULFATE

WARNING: OXIDIZER
AIRBORNE DUST MAY IRRITATE EYES, SKIN AND MUCOUS
MEMBRANES UPON CONTACT. CONTINUOUS CONTACT MAY
PRODUCE SKIN DERMATITIS. INHALATION OF AIRBORNE DUST
AT HIGH LEVELS MAY PRODUCE SHORTNESS OF BREATH IN

ALLERGIC PERSONS.

THIS MATERIAL SHOULD ONLY BE HANDLED BY PROPERLY TRAINED PERSONEL WITH PROPER PROTECTIVE CLOTHING AND RESPIRATORY EQUIPMENT. UN PROTECTED EXPOSURE MAY BE HARMFUL.

SECTION IV – FIRST AID

CAUTION SHOULD BE USED TO AVOID CROSS EXPOSURE WHEN TREATING EXPOSURE VICTIMS. THIS MATERIAL CAN BE HARMFUL FROM EXPOSURE TO EYES, SKIN, INGESTION OR INHALATION.

IF SAFE TO DO SO MOVE VICTIM TO FRESH AIR, HAVE THEM LIE DOWN AND TRY TO CONTROL THEIR LEVEL OF EXERTION TO KEEP THEM CALM AND BREATHING AS NORMAL AS POSSIBLE. REMOVE CONTAMINATED CLOTHING.

***EYES:* IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN**

***SKIN:* IN CASE OF CONTACT, WASH WITH SOAP AND WATER AFTER EXCESSIVE CONTACT**

***INHALATION:* IF INHALED, MOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY, MOUTH TO MOUTH.**

IF BREATHING IS DIFFICULT, GIVE OXYGEN AND CALL A PHYSICIAN.

***INGESTION:* IF SWALLOWED, GIVE VICTIM A GLASS OF WATER AND INDUCE VOMITING UNDER THE INSTRUCTION OF PHYSICIAN.**

- NOTE: MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE MAY BE CONJUNCTIVITIS OF EYES, ECZEMA OF THE SKIN, DERMATITIS, ASTHMA AND RESPIRATORY DISEASES.**

SECTION V – FIRE AND EXPLOSION DATA

FLASHPOINT: INCOMBUSTIBLE

AUTOIGNITION TETOLERANCE N/D EXTINGUISHING MEDIA: USE WATER, DRY POWDER, CARBON DIOXIDE, AND OTHER INERT MATERIALS.

SODIUM PERSULFATE

FIRE FIGHTING INSTRUCTIONS:

EVACUATE PERSONAL TO A SAFETY AREA. IF SMOKE AND FUMES CAN NOT BE AVOIDED, USE PROXIMITY SUIT AND SELFCONTAINED BREATHING APPARATUS.

SECTION VI ACCIDENTAL RELEASE MEASURES

SWEEP UP, PLACE IN DRUM LINED WITH ACID RESISTANT MATERIALS AND RINSE THE AREA WITH WATER. AVOID CONTACT WITH COMBUSTIBLE MATERIALS.

SEE SECTIONS 13-14-15 FOR ADDITIONAL INFORMATION

SECTION VII – HANDLING – STORAGE - REACTIVITY DATA

HANDLING: USE ONLY WITH ADEQUATE VENTILATION (GENERAL AND/OR LOCAL) IN ORDER TO MINIMIZE AIRBORNE CONCENTRATIONS IN WORKSHOPS. WEAR RESPIRATORY PROTECTION IF VENTILATION IS INADEQUATE OR NOT AVAILABLE. USE EYE AND SKIN PROTECTION. USE CLEAN PLASTIC OR STAINLESS STEEL SCOOPS ONLY.
STORAGE: STORE IN COOL DRY PLACE AND AWAY FROM FLAMMABLE MATERIALS IN TIGHTLY SEALED CONTAINERS. AVOID MOISTURE AND/OR CONTAMINATION SUCH AS RUST.

SECTION VIII – EXPOSURE - HEALTH DATA – PERSONAL PROTECTION

**EXPOSURE LIMITS: CHEMICAL NAME: SODIUM PERSULFATE
TWA(ACGIH) 0.1 MG/M3
IF EYES: MAY CAUSE IRRITATION
IF SKIN: MAY CAUSE IRRITATION
IF INHALED: MAY CAUSE IRRITATION TO THE RESPIRATORY TRACT.
IF INGESTED: MAY BE HARMFUL
RESPIRATOR PROTECTION: RESPIRATORS WITH FILTERS ARE RECOMMENDED.
SKIN PROTECTION: WEAR RUBBER GLOVES AND PROTECTIVE GEAR
EYE PROTECTION: WEAR GOGGLES OR GLASSES WITH SIDE SHIELDS**

SECTION VIII – PHYSICAL AND CHEMICAL PROPERTIES

**FORM: CRYSTALS
ODOR: NONE
THRESHOLD LIMIT VALUE: N/D
AIRBORNE EXPOSURE LIMITS = N/D**

SODIUM PERSULFATE

**HEALTH HAZARDS: AVOID EXPOSURE – AIRBORNE DUST MAY IRRITATE EYES, SKIN AND MUCOUS MEMBRANES UPON CONTACT. CONTINUOUS CONTACT MAY PRODUCE SKIN DERMATITIS. INHALATION OF AIRBORNE DUST AT HIGH LEVELS MAY PRODUCE SHORTNESS OF BREATH IN ALLERGIC PERSONS.
ROUTES OF ENTRY: EYES, SKIN, INHALATION
INHALATION: MAY BE HARMFUL, IRRITANT TO RESPIRATORY TRACT
INGESTION: MAY BE HARMFUL
SKIN (DERMAL): MAY BE HARMFUL, MAY CAUSE IRRITATION
EYES: MAY BE HARMFUL, MAY CAUSE IRRITATION
OVER EXPOSURE EFFECTS: SEEK MEDICAL ATTENTION
HMIS HEALTH 3
HMIS FLAMMABILITY 0
HMIS REACTIVITY 1
HMIS OTHER X
TSCAT STATUS: HAZARDOUS WASTE**

ALL MATERIALS IN THIS PRODUCT ARE PRODUCED IN COMPLIANCE WITH PUBLIC LAW 94-469, (ALSO KNOWN AS THE "TOXIC SUBSTANCES CONTROL ACT OF 1976)

SECTION X – STABILITY AND REACTIVITY

**STABILITY: STABLE
CONDITIONS TO AVOID: DECOMPOSES WHEN STORED UNDER CONDITIONS OF EXCESSIVE HEAT AND/OR MOISTURE, GENERATING HEAT AND CAUSING THE RELEASE OF OXIDES AND SULFURIC ACID AND OXYGEN WHICH SUPPORTS COMBUSTION.
INCOMPATIBILITY: REACTS WITH ACIDS, ALKALIS, HEAVY METALS AND REDUCTIONS TO RELEASE OXYGEN.
HAZARDOUS DECOMPOSITION: OXIEDS OR SULFURIC ACID AND OXYGEN WHICH SUPPORTS COMBUSTION
POLYMERIZATION: WILL NOT OCCUR**

SECTION XI – TOXICOLOGICAL INFORMATION

**HEALTH EFFECTS: AIRBORNE DUST MAY IRRITATE EYES, SKIN AND MUCOUS MEMBRANES UPON CONTACT.
ORAL-RAT: LD50 475MG/KG
INTRAVENOUS-RABBIT: LDLO 178MG/KG
INTRAPERITONEAL-MOUSE: LD50 226MG/KG**

SODIUM PERSULFATE

SECTION XII – ECOLOGICAL INFORMATION

**FISH TOXICITY: NO FISH TOXICITY IS KNOWN.
SECTION XIII – DISPOSAL INFORMATION
US EPA RCRA STATUS HAZARDOUS WASTE
DISPOSAL METHOD: DISPOSE AS HAZARDOUS WASTE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.**

SECTION XIV - TRANSPORTATION INFORMATION

**PROPER SHIPPING NAME: SODIUM PERSULFATE
HAZARD CLASS: CLASS 5.1
UN OR ID NUMBER: UN 1505
PACKING GROUP: PG III
NORTH AMERICAN EMERGENCY RESPONSE GUIDE NO: 140
ALWAYS CONSULT MODE SPECIFIC REGULATIONS BEFORE SHIPPING THIS MATERIAL BY HIGHWAY, RAIL, AIR, OR OCEAN
FOR ASSISTANCE CONTACT larry@dangerousgoods.com
PACKAGINGS BULK AND NON-BULK
REPORTABLE QUANTITY N/D
TRADE NAME: SODIUM PERSULFATE
SYNONYMS: N/D
SIGNAL WORD: OXIDIZER**

SECTION XV - REGULATORY INFORMATION

ALL COMPONENTS ARE IN COMPLIANCE WITH THE FOLLOWING REGULATORY AGENCIES: USA – TSCA / CANADIAN DSL / EU EINECS / JAPANESE ENCS KOREA/CANADIAN
ACGIH 2000 – SHORT TERM EXPOSURE LEVELS
CANADA – WHMIS – INGREDIANT DISCLOSURE
CERCLA/SARA – HAZ SUBSTANCES & THEIR RQ
INVENTORY-CANADA-DOMESTIC SUBSTANCE LIST
INVENTORY- EUROPEAN EINECS INVENTORY
INVENTORY – JAPAN – (ENCS)
INVENTORY- KOREA – EXISTING AND EVALUATED
INVENTORY-TSCA-SECT 8(b) INVENTORY

SODIUM PERSULFATE

MASSACHUSETTS-RIGHT TO KNOW LIST
NEW JERSEY- DEPARTMENT OF HEALTH RTK LIST
NEW JERSEY- SPECIAL HAZARDOUS SUBSTANCES
OSHA – FINAL PELs- TIME WEIGHTED AVERAGES
PENNSYLVANIA RIGHT TO KNOW LIST
TSCA-SECT 12(b)- EXPORT NOTIFICATION
SARA HAZARD NOTIFICATION
TITLE III CLASSIFICATION SECTION 311,312
ACUTE N/D
CHRONIC N/D
FIRE N/D
REACTIVITY YES – COMBUSTIBLE MATERIALS
SUDDEN RELEASE OF PRESSURE N/D
REPORTABLE QUANTITY N/D
IF REGULATED UNDER CERCLA ANY MATERIAL RELEASED IN EXCESS OF THE REPORTABLE QUANTITY IN A SINGLE 24 HOUR PERIOD MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER IN THE USA AT 1 800 424 8802 OR AT THE LOCAL NUMBER OF 1 202 426 2675.
THIS PRODUCT HAS BEEN REVIEWED AND CLASSIFIED IF REQUIRED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATION AND THIS MSDS WILL CONTAIN ALL REQUIRED INFORMATION BY THE CANADIAN CONTROLLED PRODUCTS REGULATIONS
SECTION XI PROVIDES HEALTH & SAFETY INFORMATION
SECTION XIII PROVIDES ENVIRONMENTAL INFORMATION

SECTION XIV PROVIDES TRANSPORTATION INFORMATION
SECTION XVI OTHER
THIS PRODUCTS HEALTH AND SAFETY INFORMATION IS PROVIDED TO ASSIST OUR CUSTOMERS IN ASSESSING COMPLIANCE WITH HEALTH, SAFETY AND ENVIRONMENTAL REGULATIONS. THE INFORMATION CONTAINED HEREIN IS BASED ON INFORMATION CURRENTLY AVAILABLE TO US AND IS BELIEVED TO BE ACCURATE. PLEASE BE ADVISED THAT NO GUARANTEE OR WARRANTY IS PROVIDED OR IMPLIED BY THE COMPANY, ITS EMPLOYEES, ITS AGENTS, DISTRIBUTORS, OR THE PREPARER OF THIS MSDS IN THIS RESPECT.

SODIUM PERSULFATE

SINCE THE USE OF THIS PRODUCT IS WITHIN THE EXCLUSIVE CONTROL OF THE USER, IT IS THE USERS RESPONSIBILITY TO DETERMINE THE CONDITIONS OF SAFE USE. SUCH CONDITIONS MUST COMPLY WITH ALL GOVERNMENTAL REGULATIONS. ALL MATERIALS IN THIS PRODUCT ARE PRODUCED IN COMPLIANCE WITH PUBLIC LAW 94-469 (ALSO KNOWN AS THE TOXIC SUBSTANCE CONTROL ACT" OF 1976).
SODIUM PERSULFATE
THIS MATERIAL SAFETY DATA SHEET PROVIDED AS A GUIDE TO THE USER
PLEASE READ ENTIRE MSDS BEFORE USING THIS PRODUCT
PLEASE CONTACT THE TECHNICAL ASSISTANCE NUMBER FOR ANY ADDITIONAL INFORMATION
ALWAYS FOLLOW YOUR COMPANIES HEALTH AND SAFETY PLAN BEFORE WORKING WITH THIS PRODUCT OR ANY OTHER CHEMICAL. ALWAYS WEAR THE APPROPRIATE SAFETY GEAR WHEN WORKING WITH OR AROUND CHEMICALS.

7

FOOTNOTES. N/A = NOT APPLICABLE N/D = NO DATA
< = LESS THAN > = GREATER THAN
APP. = APPROXIMATE EST. = ESTIMATE
FOR TECHNICAL ASSISTANT PLEASE CONTACT **AYERS INTERNATIONAL CORPORATION**

AT:

**125 Barn Hill Rd
Greenwich, Ct. 06831
203-329-8919**

THIS DOCUMENT PREPARED BY:
Daniel Jacobs