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MATERIAL SAFETY DATA SHEET

Sodium Persulfate (SPS)

PRODUCT NAME _____

1. CHEMICAL PRODUCTS AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER: Sodium Persulfate (SPS)

GENERAL USE: Initiators for emulsion polymerization reactions such as acrylics, PVC, polystyrenes, neoprene, SBR and others, Etching of printed circuits.

FORMULA: $Na_2S_2O_8$

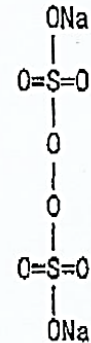
CHEMICAL NAME & STRUCTURE:

MANUFACTURER:

ASAHI DENKA Co., Ltd.
3-14, NIHONBASHI-MUROMACHI
2-CHOME, CHUO-KU,
TOKYO 103-8311, JAPAN

TEL 81-3-5640-0334 FAX 81-3-3660-1987

Sodium Persulfate (SPS)



EMERGENCY TELEPHONE NUMBERS:

TEL _____ FAX _____

DISTRIBUTOR:

TEL _____ FAX _____

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	%	CAS NO	NOTE
Sodium Persulfate	> 98.0	7775-27-1	None

EXPOSURE GUIDELINE

OSHA HAZARDS	OSHA PEL		ACGIH TLV		STEL	
	ppm	mg/m ³	TWA ppm	mg/m ³	ppm	mg/m ³
Sodium Persulfate	—	—	—	0.1	—	—

3. HAZARDS IDENTIFICATION

***** EMERGENCY OVERVIEW *****
* Oxidizing agent . *
* * * * *
* Decomposition is accelerated by contamination of heavy metals or by excessive heat. *
* Cause heat and generate oxygen, sulfuric acid mist or sulfurous acid gas. *

POTENTIAL HEALTH EFFECTS

SKIN CONTACT : May cause irritation.

EYE CONTACT : May cause eye irritation.

INHALATION : May cause respiratory irritation.

INGESTION : No information is available.

CHRONIC EFFECTS : NTP:Not tested, OSHA:Not regulated, IARC:Not listed.

4. FIRST AID MEASURES

SKIN CONTACT: Wash skin thoroughly with water and soap.
Get medical attention, if needed.

EYE CONTACT : Wash eye with plenty of water for more than 15 minutes.
Get medical attention, if needed.

INHALATION : Move affected person to fresh air and call a physician

INGESTION : Do not induce vomiting. See a physician.
Never give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

FLAMMABLE PROPERTIES:

Flashpoint and Method :Non-combustible
Flammable Limits(% by volume) :Non-combustible
Autoignition Temperature °C (° F) :Non-combustible

EXTINGUISHING MEDIA: Deluge with water.

SPECIAL FIRE-FIGHTING PROCEDURES: Wear full protective clothing and self-contained breathing apparatus.

FIRE-FIGHTING INSTRUCTIONS: Move products near fire to safety place, or take cooling procedure.
On the first level of persulfates decomposition, spray large quantity of water for cooling.
Do not use carbon dioxide or other gas-filled fire extinguishers.
They will have no effect on decomposing persulfates.
Fire fighters should wear full protective clothing and self-contained breathing apparatus.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxygen that supports combustion and oxides of sulfur.

TO FIREMEN: Product is non-combustible. On decomposition releases oxygen which may intensify fire. Presence of water may accelerate decomposition.

6. ACCIDENTAL RELEASE MEASURES

LARGE SPILL: Wipe out and recover it into an approved DOT container. Never return to the original container. Diluted with a large quantity of water and disposed of according to governmental requirements and local disposal regulations.

SMALL SPILL: Flush with plenty of water.

7. HANDLING AND STORAGE

HANDLING : Use adequate ventilation when transferring product from bags or drums.
Wear respiratory protection if ventilation is inadequate or not available.
Use eye and skin protection when contact is expected.
Use clean plastic or stainlesssteel scoops only.

STORAGE : Store (Unopened) in a cool, clean, shaded dry place away from point sources of heat such as radiant heaters or steam pipes. Avoid contamination of opened Product.
In case of fire or decomposition (Smoking/Fuming) deluge with plenty of water to control decomposition. For storage, refer to NFPA bulletin 43A on storage of liquid and solid oxidizing materials.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide mechanical ventilation of confined spaces.

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: Use approved dust respirator when airborne dust is expected.

EYE PROTECTION: Use chemical safety goggles.

SKIN PROTECTION: Use chemical resistant gloves.

BODY PROTECTION: Use chemical resistant clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE : White powder

ODOR : Slight odor

BOILING POINT (° F/ °C) : Not applicable

MELTING POINT (° F/ °C) : Not applicable(decomposes)

FREEZING POINT : Not applicable

VAPOR PRESSURE (KPa) : Not applicable

SOLUBILITY IN WATER : 41% (20°C)

SPECIFIC GRAVITY : 2.59

pH : Not applicable

VISCOSITY (mPa·s) : Not applicable

VAPOR DENSITY (air =1) : Not applicable

EVAPORATION RATE : Not applicable

(n- Butylacetate=1)

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY : Stable at recommended conditions of storage and handling.
(Unstable in presence of heat and moisture.)

SUBSTANCES TO AVOID CONTAMINATION : Heavy metals, reducing agents and moisture, acids, alkalis,
halides, combustible materials, oxidizable materials.

HAZARDOUS REACTION AND FIRE DANGER : Unstable in presence of heat and moisture.
Non-combustible

PRODUCTS CAUSING HAZARDOUS DECOMPOSITION : Oxygen and oxides of sulfur and nitrogen.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS : May cause eye irritation.

SKIN EFFECTS: May cause skin irritation.

ACUTE ORAL EFFECTS: LD₅₀=226mg/kg (ipr-mouse) ----3)

ACUTE INHALATION EFFECTS : No data available.

CHRONIC EFFECTS/CARCINOGENICITY: No data available.

MUTAGENICITY: No data available.

12. ECOLOGICAL INFORMATION

BIODEGRADABILITY : No data available.

BIOACCUMULATION : No data available.

FISH TOXICITY : No data available.

13. DISPOSAL CONSIDERATION

DISPOSAL INFORMATION : Dilute with plenty of water and dispose it in accordance with
federal, state and local laws.

14. TRANSPORTATION INFORMATION

UN NO : 1505

IMDG CODE : 5.1(oxidizer) packing group III

15. REGULATORY INFORMATION

U. S. FEDERAL REGULATION:

TSCA	:	TSCA INVENTORY	<input checked="" type="checkbox"/>	registered	<input type="checkbox"/>	not registered
SARA TITLE III		SECTION 313 TOXIC CHEMICALS:		COMPONENT	CAS NO	WT%
				None		

INTERNATIONAL INFORMATION:

CEPA	:	DSL	<input checked="" type="checkbox"/>	registered	<input type="checkbox"/>	not registered
EINEC	:	EINECS	<input checked="" type="checkbox"/>	registered	<input type="checkbox"/>	not registered
						NO 231-786-5

16. OTHER INFORMATION

RATING

H M I S:

HEALTH:	1
FLAMMABILITY:	0
REACTIVITY:	1
PERSONAL PROTECTIVE EQUIPMENT:	E

N F P A:

HEALTH HAZARD:	1
FLAMMABILITY:	0
REACTIVITY:	1
SPECIAL HAZARD:	OXY

REFERENCE:

- 1) Threshold limit values for chemical substance and physical agents and biological exposure indices, ACGIH (2001)
- 2) IARC Monographs on the Evaluation of Carcinogenic Risk of Chemicals to Humans, vol. 1~60
- 3) RTECS. Registry of Toxic Effects of Chemical Substance

OTHERS : NONE

DATE REVISED : NONE

OTHERS : NONE

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Osamu Fujimoto

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Title: Associate Director, General Manager
ENVIRONMENT, SAFETY & QUALITY ASSURANCE DEPARTMENT.
ASAHI DENKA Co., Ltd.