

REVISION DATE: 12/05/2011

SAFETY DATA SHEET POTASSIUM PERSULFATE

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME	POTASSIUM PERSULFATE
CAS-No.	7727-21-1
EU INDEX NO.	016-061-00-1
EC No.	231-781-8
SYNONYMS, TRADE NAMES	dipotassium peroxodisulphate
SUPPLIER, MANUFACTURER	<p>MITSUBISHI GAS CHEMICAL COMPANY, INC.</p> <p>DAEMYUNG CHEMICAL COMPANY (14,Seongsui-ro 14gil Seongdong-gu,Seoul Korea)</p>
EMERGENCY TELEPHONE	+82-2-462-3857

2 HAZARDS IDENTIFICATION

CLASSIFICATION (67/548) O;R8 Xn;R22 R42/43 Xi;R36/37/38

CLASSIFICATION (EC 1272/2008)

Physical	Ox. Sol. 2 - H272
Health	Acute Tox. 4 - H302;Skin Irrit. 2 - H315;Eye Irrit. 2 - H319;Resp. Sens. 1 - H334;Skin Sens. 1 - H317;STOT Single 2 - H334,H371
Environmental	Acute hazard 3 H402

LABEL IN ACCORDANCE WITH (EC) NO. 1272/2008



SIGNAL WORD

Danger

HAZARD STATEMENTS

H272	May intensify fire; oxidizer.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H402	Harmful to aquatic life.

PRECAUTIONARY STATEMENTS

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P264a	Wash skin thoroughly after handling.
P305/351/338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P313	Get medical advice/attention.
P501	Dispose of content/container to licensed waste site in accordance with local Waste Disposal Authority.

SUPPLEMENTARY PRECAUTIONARY STATEMENTS

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P220	Keep/Store away from clothing/combustible materials.
P221	Take any precaution to avoid mixing with combustibles.
P261	Avoid breathing dust/vapours.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P285	In case of inadequate ventilation wear respiratory protection.
P301/312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302/352	IF ON SKIN: Wash with plenty of soap and water.
P333/313	If skin irritation or rash occurs: Get medical advice/attention.
P304/340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P330	Rinse mouth.

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P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P342/311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P272	Contaminated work clothing should not be allowed out of the workplace.
P362	Take off contaminated clothing and wash before reuse.
P403/233	Store in a well-ventilated place. Keep container tightly closed.
P273	Avoid release to the environment.
P405	Store locked up.

3 COMPOSITION/INFORMATION ON INGREDIENTS

EU INDEX NO.	016-061-00-1
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CAS-No.	7727-21-1

COMPOSITION COMMENTS

>98.0%

4 FIRST-AID MEASURES

INHALATION

Move the exposed person to fresh air at once. Get medical attention. Provide rest, warmth and fresh air. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

INGESTION

DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Remove victim immediately from source of exposure. Get medical attention immediately! Provide rest, warmth and fresh air.

SKIN CONTACT

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.

EYE CONTACT

Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Use: Dry chemicals, sand, dolomite etc. Foam. Water spray, fog or mist. Unsuitable extinguishing media: Carbon dioxide (CO2).

SPECIAL FIRE FIGHTING PROCEDURES

Move container from fire area if it can be done without risk.

SPECIFIC HAZARDS

In case of fire, toxic and corrosive gases may be formed.

PROTECTIVE MEASURES IN FIRE

Wear full protective clothing. Wear suitable respiratory protection.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet.

ENVIRONMENTAL PRECAUTIONS

Avoid discharge into drains.

SPILL CLEAN UP METHODS

Shovel into dry containers. Cover and move the containers. Flush the area with water. For waste disposal, see section 13.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Provide good ventilation. Avoid inhalation of dust and contact with skin and eyes. Do not use in confined spaces without adequate ventilation and/or respirator. Oxidising material - Keep away from flammable and combustible materials.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place. Oxidising material - Keep away from flammable and combustible materials. Keep in original container. Protect from sunlight.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT



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POTASSIUM PERSULFATE**ENGINEERING MEASURES**

Provide adequate general and local exhaust ventilation. Eye wash facilities and emergency shower must be available when handling this product.

RESPIRATORY EQUIPMENT

Wear suitable respiratory protection. Dust mask.

HAND PROTECTION

Use protective gloves. Rubber or plastic.

EYE PROTECTION

Wear approved safety goggles.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of skin contact.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Powder, dust		
COLOUR	White		
ODOUR	Slightly pungent odour		
UDF Phrase 1	Strong oxidising substances.		
MELTING POINT (°C)	267.3 °C	RELATIVE DENSITY	2.477
SOLUBILITY VALUE (g/100g H ₂ O@20° C)	5.2		

10 STABILITY AND REACTIVITY**STABILITY**

Stable under normal temperature conditions.

CONDITIONS TO AVOID

Avoid heat. Contact with combustibles. Water, moisture.

MATERIALS TO AVOID

Flammable/combustible material. Powdered metal. Sulphur. Reducing Agents. Chlorate Perchlorate * 1)

HAZARDOUS DECOMPOSITION PRODUCTS

Oxygen. Toxic gases/vapours/fumes of: Sulphurous gases (SO_x).

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50	458 mg/kg (oral-mouse)
TOXIC DOSE 2 - LD 50	1130 mg/kg (oral rat)
TOXIC CONC. - LC 50	> 10.7 mg/l/4h (inh-rat)

TOXICOLOGICAL INFORMATION

* 2)

INHALATION

Harmful by inhalation. May cause irritation to the respiratory system. May cause sensitisation by inhalation.

INGESTION

Harmful if swallowed.

SKIN CONTACT

Harmful in contact with skin. Irritating to skin. May cause sensitisation by skin contact.

EYE CONTACT

Irritating to eyes.

TARGET ORGANS

Skin Eyes Respiratory system, lungs

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

No negative effects on the aquatic environment are known.

MOBILITY

The product is soluble in water.

BIOACCUMULATION

No data available on bioaccumulation.

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DEGRADABILITY

There are no data on the degradability of this product.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

UK ROAD CLASS	5.1		
UN NO. ROAD	1492	UK ROAD PACK GR.	III
ADR CLASS NO.	5.1	ADR CLASS	Class 5.1: Oxidising substances.
ADR PACK GROUP	III	RID CLASS NO.	5.1
RID PACK GROUP	III	UN NO. SEA	1492
IMDG CLASS	5.1	IMDG PACK GR.	III
UN NO. AIR	1492	AIR CLASS	5.1
AIR PACK GR.	III		

15 REGULATORY INFORMATION

Follow all regulations in your country.

Mitsubishi Gas Chemical Co., Inc. is not able to check up the regulatory information in regard to this product in your country or region.

Therefore, we request this matter would be filled by your responsibility.

16 OTHER INFORMATION

INFORMATION SOURCES

*1

The handling manual of hazardous substances and toxic substances

*2

National Institute of Technology and Evaluation (NITE)

REVISION COMMENTS

This is first issue.

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DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.