



MATERIAL SAFETY DATA SHEET

SOLUPRAY P 4260 AT

Page : 1

Revised edition no : 1

Date : 1 / 2 / 2012

Supersedes : 0 / 0 / 0

PINC-261

Health : 1	CAUTION : May be irritating.
Flammability : 0	Not combustible.
Reactivity : 0	Stable : Not reactive when mixed with water.
Special note key : --	---

Producer

PRAYON INC.
1610 Marvin Griffin Road
Augusta GA 30906 United States of America
In case of emergency : CHEMTREC 1-800-424-9300

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Chemical name : Tetrapotassium pyrophosphate 60% solution
Trade name : SOLUPRAY P 4260 AT
Chemical formula : $K_4P_2O_7$
Type of product : Phosphate (Aqueous solution)

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use : Technical applications

1.3. Details of the supplier of the safety data sheet

Company identification : See producer.
e-mail address of the competent person responsible for the Safety Data Sheet : Customerservice@prayoninc.com

1.4. Emergency telephone number (24/24 - 7/7)

Emergency phone number : IN THE EVENT OF A CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT
Call CHEMTREC: 1-800-424-9300. Toll free in the continental U.S., Hawaii, Puerto Rico, Canada, Alaska, or U.S. Virgin Islands. For calls originating elsewhere dial 703-527-3887 (collect calls accepted).
Nationwide poison control center: 1-800-222-1222
For other countries, see section 16.6

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1 Classification (EC) N° 1272/2008 (CLP/GHS)

Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2)

2.1.2 Classification 67/548/EEC (DPD)

: Self-classification according to EU criteria.

2.1.3 Note

: See section 16 for risk phrases (R-H-EUH).

2.2. Label elements

Labelling Regulation EC 1272/2008 (CLP)



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SECTION 2. Hazards identification (continued)

• Hazard pictograms



• Signal words

: Warning

Hazards identification (CLP)

H319 : Causes serious eye irritation.

- General

: P264 : Wash thoroughly after handling.

P280 : Wear protective gloves, protective clothing, eye protection, face protection.

- Prevention

: P305+P351+P338 : IF IN EYES : Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 : If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

Not PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

SECTION 3. Composition/information on ingredients

3.1. Substance

Substance name	Contents	CAS No	EC No	Annex No	Classification
Tetrapotassium pyrophosphate	: >= 60 %	7320-34-5	230-785-7	----	Xi; R36 Eye irrit 2 (H319)
Water	: <= 40	7732-18-5	231-791-2	----	Not classified. Undefined.

SECTION 4. First aid measures

4.1. Description of first aid measures

- Inhalation

: Remove victim to fresh air.
Call a physician immediately.

- Skin contact

: Rinse immediately with plenty of water.
Remove contaminated clothing and shoes.
Wash clothing before re-using.

- Eye contact

: Rinse immediately with clean water for 15 minutes.
If feeling unwell, immediately seek medical attention.

- Ingestion

: Immediately rinse mouth with water.
Do not induce vomiting.
If feeling unwell, immediately seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed

- Effects and symptoms

: Cause eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

No additional medical information found.

SECTION 5. Fire-fighting measures

5.1. Extinguishing media

- Suitable extinguishing media

: Water spray
CO2
Foam
Powder**PRAYON INC.**

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SECTION 5. Fire-fighting measures (continued)

- Unsuitable extinguishing media : None.

5.2. Special hazards arising from the substance or mixture

- Hazardous combustion and decomposition products : None.

5.3. Advice for fire-fighters

- Protection against fire : Not flammable.
Tight protective clothing required.
Wear self-contained breathing apparatus, rubber boots and thick rubber gloves.

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- Personal precautions : Do not breathe gas/fumes/vapour.
See section 8.2.2

6.2. Environmental precautions

- Environmental precautions : Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

- After spillage and/or leakage : On land, sweep or shovel into suitable containers.
Flush with plenty of water.

6.4. Reference to other sections

See section 8 and 13 for more information.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

7.1.1 Protective measures

- Handling : Do not breathe gas/fumes/vapour.
Avoid contact with skin, clothing and eyes.
Wash hands plentifully and other exposed areas with water after handling.
Remove contaminated clothing and shoes.
Wash clothing before re-using.
Packagings, even those that have been emptied, will retain product residue.
Always obey safety warnings and handle empty packagings as if they were full.

7.1.2 Advice on general occupational hygiene

When using, do not eat, drink or smoke.
Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.
Remove contaminated clothing and shoes.

7.2. Conditions for safe storage, including any incompatibilities

- Storage : Keep packaging closed when not in use.
Keep away from :
acids
Store in dry, cool, well-ventilated area.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters



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SECTION 8 Exposure controls/personal protection (continued)

Occupational Exposure Limits : OSHA and ACGIH have not established specific exposure limits for this material.
Others : Workers:
DNEL Inhalation long-term systemic : 2,79 mg/m³

General population:
DNEL Inhalation long term systemic : 0,68 mg/L
DNEL Oral long term systemic : > 70 mg/kg bw/day

PNEC Aqua (Freshwater) : 0,05mg/L
PNEC Aqua (marine water) : 0,005 mg/L
PNEC Aqua (intermittent releases) : 0,5 mg/L
PNEC STP : 50 mg/L

8.2. Exposure Control

8.2.1 Engineering measures : Good ventilation of the workplace required.
Provide a regular control of the atmosphere
Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

8.2.2 Personal protection

- Eye protection : Goggles or face shield + safety glasses
- Skin protection : Wear protective clothing.
- Hand protection : Use rubber gloves.
- Respiratory protection : Approved dust respirator with filtering cartridge (B2 following "EN 143") should be used if aerosol or vapours is generated when handling this material. Approved dust respirator with filtering cartridge should be used if aerosol or vapours is generated when handling this material (NIOSH/MSHA)
Respiratory protection programs must comply with 29 CFR 1910.134.

8.2.3 Environmental exposure control : Avoid release to the environment.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance : Liquid
Colour : Colourless.
Odour : Odourless.
pH value : 10,4 (1% solution @ 25° C)
Melting point [°C] : 100 °C
Freezing point [°C] : < -50 °C @ 760 mmHg
Boiling point [°C] : >230 °C @ 760 mmHg
Flash point [°C] : Not flammable.
Bulk density : 1.732 g/cm³ @ 25/15.5 °C
Oxidation properties : No.
Solubility in water : >60% @ 20°C, miscible

9.2. Other information

Weight per Gallon: 14.44 lbs./gal. @ 25° C



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SECTION 10. Stability and reactivity

- | | |
|--|---|
| 10.1. Reactivity | : Stable under normal conditions of handling and storage. |
| 10.2. Chemical stability | : Stable under normal conditions of handling and storage. |
| 10.3. Possibility of hazardous reactions | : Reacts vigorously with strong oxidizers and acids. |
| 10.4. Conditions to avoid | : None. |
| 10.5. Incompatible materials | : Strong acids |
| 10.6. Hazardous decomposition products | : None. |

SECTION 11. Toxicological information

11.1. Information on toxicological effects

- | | |
|--|---|
| Acute toxicity | |
| - Inhalation | : LC50 : > 1,1 mg/L (rat, OECD 403, EU method B.2. Klimisch 1) |
| - Dermal | : LD50 : > 2000 mg/kg (rabbit, equivalent to OECD 402 Klimisch 1) |
| - Ingestion | : LD50 : > 2000 mg/kg (Weight of evidence) |
| Skin and eye corrosion/irritation | : Skin : not irritating (rabbit, equivalent to OECD 404 Klimisch reliability 2)
Eye : eye irritation category II (rabbit, equivalent to OECD 405 Klimisch reliability 2) |
| Respiratory or skin sensitisation | : None. |
| Carcinogenicity | : Not investigated (no data to suggest likelihood of carcinogenicity) |
| Mutagenicity | : Not investigated (tetrapotassium pyrophosphate is not expected to produce germ cell genotoxic damage) |
| Toxic for reproduction | : Not applicable (no evidence of reproductive toxicity based on expert assessment of all available relevant data) |
| Aspiration | : LD50 : > 2000 mg/kg bw/day |

SECTION 12. Ecological information

- | | |
|---|---|
| 12.1. Toxicity | |
| - Fishes | : 96 hr LC50 : > 100 mg/L (rainbow trout, OECD 203, EU method C.1. conducted on analogous substance, Klimisch 2) |
| - Aquatic plants | : 72 hr EC50 : > 100 mg/L
72 hr NOEC : > 100 mg/L |
| - Aquatic invertebrates | : 48 hr EC50 : > 100 mg/L (Daphnia magna, EPA OTS 797.1300 Klimisch 2) |
| - Microorganisms / Effect on activated sludge | : 3 hr EC50 : > 1000 mg/L (activated sludge of a predominantly domestic sewage, OECD 209, EU Method C.11, EPA OPPTS 850.6800. Conducted on analogous substance, Klimisch 2) |
| 12.2. Persistence - degradability | : Not relevant. (inorganic substance) |
| 12.3. Bioaccumulative potential | : Minimal |
| 12.4. Mobility in soil | : No data available. |
| 12.5. Results of PBT and vPvB assessment | : Not PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII. |
| 12.6. Other adverse effects | : No. |



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SECTION 13. Disposal considerations

- Disposal : Comply with local regulations for disposal.
- Packaging : Empty packaging can have residues or dusts and are subject to proper waste disposal, as above.
- Waste codes : This material when discarded is not a hazardous waste as defined by 40 CFR 261, the Resource Conservation and Recovery Act (RCRA).

SECTION 14. Transport information

- DOT (USA) : U.S. DOT (Non-bulk): Corrosive liquid, basic, inorganic, n.o.s. (Tetrapotassium pyrophosphate solution), 8, UN3266, PGIII
U.S. DOT (Bulk): *Corrosive liquid, basic, inorganic, n.o.s. (Tetrapotassium pyrophosphate solution), 8, UN3266, PGIII
ICAO/IATA: Corrosive liquid, basic, inorganic, n.o.s. (Tetrapotassium pyrophosphate solution), 8, UN3266, PGIII
IMDG: Corrosive liquid, basic, inorganic, n.o.s. (Tetrapotassium pyrophosphate solution), 8, UN3266, PGIII
Canadian TDG: Corrosive liquid, basic, inorganic, n.o.s. (Tetrapotassium pyrophosphate solution), 8, UN3266, PGIII
*In the US, this product is classified solely because of its corrosive effect to aluminum. In accordance with 49 CFR 173.154 (d)(1), when shipped by motor vehicle or rail cars in stainless steel bulk containers, this product will NOT be classified as a hazardous material. However, if shipped in non-bulk plastic containers that may be transported in aluminum motor vehicle or rail cars, this product will be classified as a hazardous material. Prayon packages this product in accordance with 49 CFR 173.203 (Non-bulk) and 173.241 (Bulk).

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

- E.U. : No.
- USA : CERCLA Reportable Qt.: Not applicable
SARA Title III: Acute Health Hazard
SARA 302 - ESH: Not applicable
SARA 313 - Toxic: Not applicable
California Prop 65: Not applicable
RTECS/NIOSH Number: Not applicable

Hazardous chemical under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200), Appendix A: Corrosive, Irritant

- TSCA Inventory : : Listed
- Canada : WHMIS:
 - Health: Toxic - Class D2B
 - Flammability: Corrosive - Class E
- Canadian DSL/NDSL : : DSL listed

SECTION 16. Other information

- 16.1. Indication of changes : Total revision according to Reach regulations
- 16.2. Abbreviations and acronyms : AF : Assessment factor
BCF : Bioconcentration factor
CAS: Chemical Abstracts Service
CLP : Classification, labelling, packaging
DMEL : Derived maximum effect level
DNEL: Derivative No effect Level

PRAYON INC.

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SECTION 16. Other information (continued)

EC: European Community
ELV : Emission limit values
EN: European Norm
EUH: European Hazard Statement
EWC : European Waste catalogue
LC50: Median lethal concentration
LD50 : Median lethal dose
NOAEL : No-observed-adverse-effect-level
NOEC : No observed effect concentration
NOEL : No observed effect level
OEL : Operator exposure level
PBT: Persistent, bioaccumulative, Toxic
PEC : Predicted effect level
PNEC: Predicted No effect Concentration
REACH : Registration, evaluation and autorisation of chemicals
STEL: Short Term Exposure Limit
TWA : Time weighted average
vPvB: Very persistent, very bioaccumulative

16.3 Sources of key data used

: Reach dossier

16.4. Risk Phrases (R - H)

: H319 : Causes serious eye irritation.
R36 : Irritating to eyes.

16.5. Training advice

: None.

16.6. Further information

: EMERGENCY NUMBERS
CANUTEC (Canadian Transportation): (613) 996- 6666

The contents and format of this SDS are in accordance with REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

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