

Reliable Products Inc.

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Challenger PC-737**

Synonyms/Generic Names: None

Manufactured by:

Reliable Products Inc.
1330 Louis Avenue
Elk Grove Village, IL 60007

For More Information Call:
847.228.7667

24/7 Transportation Emergencies Call:

INFOTRAC: 800-535-5053
Account No.: 77840

2. HAZARD IDENTIFICATION

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

GHS Ratings:

Dermal Toxicity	Acute Tox. 1	Dermal<=50mg/kg
Skin corrosive	1B	Destruction of dermal tissue: Exposure < 1 hour Observation < 14 days, visible necrosis in at least one animal
Eye corrosive	2A	Eye irritant: Subcategory 2A, Reversible in 21 days
Reproductive toxin	2	Human or animal evidence possibly with other information

GHS Hazards

H312	Harmful in contact with skin
H315+H320	Causes skin and eye irritation
H361	Suspected of damaging fertility or the unborn child

GHS Precautions

P202	Do not handle until all safety precautions have been read and understood
P260	Do not breathe dust/fume/gas/mist/vapors/spray
P262	Do not get in eyes, on skin, or on clothing
P264	Wash ... thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P281	Use personal protective equipment as required
P310	Immediately call a POISON CENTER or doctor/physician
P361	Remove/Take off immediately all contaminated clothing
P363	Wash contaminated clothing before reuse
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P302+P350	IF ON SKIN: Gently wash with soap and water
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

P308+P313
P405

IF exposed or concerned: Get medical advice/attention
Store locked up

Signal Word: Danger



3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS number	Weight Concentration %
Water	7732-18-5	80.00% - 90.00%
2-Butoxyethanol	111-76-2	5.00% - 10.00%
Pentasodium triphosphate	7758-29-4	1.00% - 5.00%
Potassium hydroxide	1310-58-3	1.00% - 5.00%
Denatured Alcohol	64-17-5	1.00% - 5.00%
Tetrapotassium pyrophosphate	7320-34-5	1.00% - 5.00%

4. FIRST-AID MEASURES

INHALATION: Move exposed party to fresh air and keep at rest. If breathing is difficult, provide the individual oxygen. If not breathing, give artificial respiration. Get medical attention immediately.

EYE CONTACT: In case of eye contact, rinse with plenty of water for at least 20 minutes and seek medical attention immediately.

SKIN CONTACT: Immediately flush with plenty of water for at least 20 minutes while removing contaminated clothing. Get medical attention immediately.

INGESTION: Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Flash Point: None

LEL: N/A

UEL: N/A

FLAMMABLE LIMITS: Product is not flammable. However, contact with metal may release flammable hydrogen gas

EXTINGUISHING MEDIA: Use an extinguishing agent suitable for the surrounding fire and other materials present that are exposed to fire.

FIRE AND EXPLOSION HAZARD: Use water spray to cool unopened containers if necessary to prevent BLEVE (Boiling Liquid Expanding Vapor Explosion).

HAZARDOUS COMBUSTION PRODUCTS: Under fire conditions toxic fumes should be anticipated.

FIRE FIGHTING: See also Stability and Reactivity section.

FIRE EQUIPMENT: Wear self-contained approved breathing apparatus and full protective clothing (including eye protection and boots).

6. ACCIDENTAL RELEASE MEASURES

SPILL/LEAK: Follow your companies established procedures for reporting and/or responding to chemical incidents. No action shall be taken involving any personal risk or without suitable training, and issuance of appropriate personal protective equipment.

See section 8 for recommendations on the use of personal protective equipment.

SMALL SPILL: Stop leak if without risk. Clean up spilled material with noncombustible absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with Federal, state, and local regulations.

LARGE SPILL: No action shall be taken involving any personal risk or without suitable training, and issuance of appropriate personal protective equipment. Stop leak if without risk. Prevent spillage from entering drains and/or waterways. Any release to the environment may be subject to Federal, state, and local reporting requirements.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash hands thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. Use with adequate ventilation. Avoid formation of aerosol mixtures involving the material.

See section 8 for recommendations on the use of personal protective equipment.

STORAGE: Keep container closed when not in use. Store in cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities). Protect from excessive heat and/or freezing.

REGULATORY: Do not store in unlabeled containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Chemical Name / CAS No.</u>	<u>OSHA Exposure Limits</u>	<u>ACGIH Exposure Limits</u>	<u>Other Exposure Limits</u>
Water 7732-18-5	Not Established	Not Established	Not Established
2-Butoxyethanol 111-76-2	Not Established	Not Established	Not Established
Pentasodium triphosphate 7758-29-4	Not Established	Not Established	Not Established
Potassium hydroxide 1310-58-3	Not Established	2 mg/m ³ Ceiling	NIOSH: 2 mg/m ³ Ceiling
Denatured Alcohol 64-17-5	Not Established	Not Established	Not Established
Tetrapotassium pyrophosphate 7320-34-5	Not Established	Not Established	Not Established

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended, or statutory limits. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable), or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

VENTILATION: Use only with adequate ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

ADMINISTRATIVE CONTROLS: No action shall be taken involving any personal risk or without suitable training and issuance of appropriate personal protective equipment.

PROTECTIVE GEAR:

Eye protection: Wear safety goggles if eye contact is possible (face shield recommended if splashing is possible).

Hand protection: Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body Protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved, and should be approved by a safety specialist before handling this product.

Other Skin Protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved, and should be approved by a safety specialist before handling this product.

Respiratory Protection: If needed, use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product, and the safe working limits of the selected respirator.

CONTAMINATED GEAR: Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

NOTE: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

Specific Gravity (SG):	1.1 (approximate)
pH:	~ 12.0 (1% solution)
VOC:	N/E (not established)

10. STABILITY AND REACTIVITY

Product is STABLE under normal conditions of storage and handling.

INCOMPATIBLE MATERIALS:

Oxidizing agents. Acids. Phosphorus. Aluminum. Zinc. Tin Initiates or catalyzes violent polymerization of acetaldehyde, acrolein or acrylonitrile.

HAZARDOUS DECOMPOSITION:

Contact with metals (aluminum, zinc, tin) and sodium tetrahydroborate liberates hydrogen gas.

HAZARDOUS POLYMERIZATION:

Will not occur.

11. TOXICOLOGICAL INFORMATION

Mixture Toxicity**Component Toxicity**

7758-29-4	Pentasodium triphosphate Oral LD50: 3,120 mg/kg (Rat)
1310-58-3	Potassium hydroxide Oral LD50: 284 mg/kg (Rat)
7320-34-5	Tetrapotassium pyrophosphate Oral LD50: 2,000 mg/kg (Mouse)

This material has been defined as a hazardous chemical under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

TARGET ORGANS: Eyes, Skin, Respiratory System**Effects of Overexposure**

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
None			No Data Available

ACUTE TOXICITY: Corrosive effects. May cause temporary blindness and severe eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

CHRONIC EFFECTS: None Known

12. ECOLOGICAL INFORMATION

The information given is based on data available for the material, the components of the material, and similar materials (if any).

Component Ecotoxicity

Tetrapotassium pyrophosphate	96 Hr LC50 <i>Oncorhynchus mykiss</i> : >100 mg/L 48 Hr EC50 water flea: >100 mg/L
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13. DISPOSAL CONSIDERATIONS

If this product becomes a waste, it may meet the criteria of a hazardous waste as defined in 40 CFR 261 as a minimum of a D002 material, defined as a Waste Corrosive material [$\text{pH} \leq 2$ or ≥ 12.5 , or corrosive to steel]. Other waste codes may apply. Waste material should only be sent to an appropriately permitted RCRA facility.

Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

Dispose of in accordance with Federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

Important Note: The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation. As shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin / destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

For small quantities packed in combination packaging, exceptions may apply.

For emergency transportation information, in the United States: call CHEMTREC at 800-424-9300

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
PHMSA	Compounds, Cleaning Liquid (Potassium Hydroxide)	NA1760	PG III	8

15. REGULATORY INFORMATION

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

The following chemicals are reportable under Pennsylvania Right to Know:

- 111-76-2 2-Butoxyethanol
- 7758-29-4 Pentasodium triphosphate
- 1310-58-3 Potassium hydroxide
- 64-17-5 Denatured Alcohol

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): WARNING!

This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

- None

SARA313

- None

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
U.S.A.	TSCA	Yes

United States inventory (TSCA 8b): All components are listed or exempted.

- None

SARA 313 Components: The following listed components (if any) are subject to the Supplier Notification Requirement found in 40 CFR 372.45 (c 4); a part of Title III of the Superfund Amendments and Reauthorization Act of 1986.

16. OTHER INFORMATION

Hazardous Material Information System (HMIS)

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	C

HMIS & NFPA Hazard Rating

Legend

* = Chronic Health Hazard

0 = INSIGNIFICANT

1 = SLIGHT

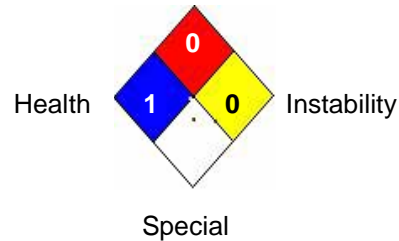
2 = MODERATE

3 = HIGH

4 = SEVERE

National Fire Protection Association (NFPA)

Flammability



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