



IBI SCIENTIFIC

9861 Kapp Court ■ Peosta, IA 52068

Tele: (563) 690-0484 ■ 1-800-253-4942

Fax: (563) 690-0490 ■ **E-Mail:** info@ibisci.com

Web: www.ibisci.com

Issuing Date: 22-Dec-1997

Revision Date: 21-Dec-2011

Rev. 3

1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND THE COMPANY/UNDERTAKING

Product Name: Ammonium Persulfate
Product Code: IB70080
Recommend Use: For further manufacturing use only
Not for human or animal drug use
Synonyms: AMMONIUM PEROXYDISULFATE * DIAMMONIUM PEROXYDISULPHATE
Company: IBI SCIENTIFIC
9861 Kapp Court
Peosta, IA 52068
Emergency Tele. Number: 3E Company (Acct# 9027) 1-800-451-8346 / (001) 760-602-8703
Company Tele. Number: 1-800-253-4942 / (001) 563-690-0484
E-Mail Address: info@ibisci.com

2. HAZARDOUS IDENTIFICATION

GHS – Classification

Classification: Oxidizing Solid 3 Acute Toxicity Oral 4 Eye Irritant 2 Specific Target Organ Toxicity (Single) 3 Respiratory Sensitizer 1 Skin Sensitizer 1
Signal Word: Danger



Hazard Statements: H272-May intensify fire; oxidizer * H302-Harmful if swallowed * H312-Harmful in contact with skin * H317-May cause an allergic skin reaction * H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled * H319-Causes serious eye irritation * H335-May cause respiratory irritation * H315-Causes skin irritation

Precautionary Statements: P220-Keep/Store away from clothing/other combustible materials * P260-Do not breathe dust/fume/gas/mist/vapors/spray * P280-Wear protective gloves/protective clothing/eye protection/face protection * P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. * P310-Immediately call a Poison Center or doctor/physician.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| | |
|------------------------|----------------------------------|
| Chemical Name: | Ammonium Persulfate |
| EC No.: | EEC No. 231-786-5 |
| REACH Reg. No.: | Not Available |
| CAS No.: | 7727-54-0 |
| Weight %: | 95 – 100 |
| Classification: | O;R8,Xn;R22, Xi;R36/37/38,R42/43 |

4. FIRST AID MEASURES

| | |
|----------------------------|--|
| Eye Contact: | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| Skin Contact: | Wash off immediately with soap and plenty of water, removing all contaminated clothes and shoes. |
| Inhalation: | Move to fresh air. If breathing is difficult, give oxygen. |
| Ingestion: | Clean mouth with water and afterwards drink plenty of water. |
| Notes to Physician: | Treat symptomatically. |

5. FIRE FIGHTING MEASURES

| | |
|--|--|
| Flammable Properties: | Not flammable |
| Flash Point: | >93.3°C / 200°F |
| Suitable Extinguishing Media: | Dry chemical, CO ₂ , alcohol-resistant foam or water spray. |
| Hazardous Combustion Products: | Carbon oxides, Emits toxic fumes. |
| Explosion Data | |
| Sensitivity to Mechanical Impact: | Not sensitive |
| Sensitivity to Static Discharge: | Not sensitive |
| Specific Hazards Arising from the Chemical: | This is a strong oxidizer and will react vigorously or explosively with many materials including fuels. |
| Protective Equip. & Precautions for Firefighters: | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equiv.) and full protective gear. |

6. ACCIDENTAL RELEASE MEASURES

| | |
|---------------------------------|---|
| Personal Precautions: | Use personal protective equipment. Ensure adequate ventilation. |
| Methods for Containment: | Prevent further leakage or spillage, if safe to do so. |
| Methods for Cleaning Up: | Cover with dry lime or soda ash. Pick up and transfer to properly labeled containers. |

7. HANDLING AND STORAGE

| | |
|-------------------------------|---|
| Handling: | Mixing a solution of ammonium persulfate with powdered aluminum or iron may result in an explosion. Violent reaction results from silver-catalyzed oxidation of ammonia to nitrogen. The salt exploded during drying due possibly to the formation of tetraaminezinc peroxodisulfate from the interaction of ammonium persulfate with galvanized iron and ammonia. A mixture with sodium peroxide explodes from friction due to grinding in a mortar, when heated above 75°C or on exposure to carbon dioxide or drops of water. Catalytic decomposition can occur in the presence of metals such as lead, silver, copper, magnesium, zinc, cadmium, nickel, iron, and cobalt. Handle in accordance with good industrial hygiene and safety practice. |
| Storage: | Hygroscopic. Keep container tightly closed in a dry, cool, and well-ventilated place. |
| Incompatible Products: | Strong reducing agents. Finely powdered metals. Organic materials. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name: Ammonium Persulfate - #7727-54-0
ACGIH TLV: TWA: 0.1mg/m³
OSHA PEL: -
NIOSH IDLH: -

Engineering Measures: Showers, Eyewash Stations, Ventilation Systems

Personal Protective Equipment

Eye/Face Protection: Safety glasses with side shields. Avoid contact with eyes.
Skin & Body Protection: Wear protective gloves/clothing.
Respiratory Protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White powder
Odor: No information available
Odor Threshold: No information available
Decomposition Temp. °C: No information available
Freezing Point: No information available
Initial Boiling Point: No information available
Physical State: Crystalline Powder
pH: No data available
Flash Point: >93.3°C / 200°F
Flammable Properties: No data available
Autoignition Temp. °C: No data available
Boiling Point/Range: No data available
Melting Point/Range: No data available
Flammability Limits (Air): Upper-No data available * Lower-No data available
Explosive Properties: No information available
Oxidizing Properties: No information available
Evaporation Rate: No information available
MMHG @ 37.8°C: No data available
Vapor Density: No data available
Specific Gravity: No data available
Solubility: Miscible
Partition Coefficient (n-octanol/water): No data available
Viscosity: No information available
Oxidizing Properties: Strong oxidizer

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions
Incompatible Products: Strong reducing agents, Finely powdered metals, Organic materials.
Conditions to Avoid: Hygroscopic.
Hazardous Decomposition Products: Carbon oxides, Nitrogen Oxides (NO_x), Sulfur oxides.
Hazardous Polymerization: Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information: Irritating to eye, skin, and respiratory system. Flammable liquid. Harmful if swallowed, inhaled, or absorbed.

Chemical Name: Ammonium Persulfate - #7727-54-0

LD50 Oral: 495mg/kg (Rat)

LD50 Dermal: -

LC50 Inhalation: 520mg/L (Rat) 1hr

Chronic Toxicity

Target Organ Effects: Eyes, Lungs, Nose, Throat

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Harmful to aquatic organisms

Chemical Name: Ammonium Persulfate - #7727-54-0

Toxicity to Algae: -

Toxicity to Fish: LC50 = 103mg/L *Lepomis macrochirus* (96h)
LC50 = 76.3mg/L *Oncorhynchus mykiss* (96h)

Microtox -

Daphnia Magna (Water Flea): EC50 = 120mg/L (48h)

13. DISPOSAL CONSIDERATIONS

Water Disposal Method: Dispose of material in accordance with all federal, state, and local regulations.

Contaminated Packaging: Dispose of in accordance with all federal, state, and local regulations.

14. TRANSPORT INFORMATION

IATA

UN# UN1444

Proper Shipping Name AMMONIUM PERSULFATE

Hazardous Class 5.1

Packing Group III

US DOT

UN# UN1444

Proper Shipping Name AMMONIUM PERSULFATE

Hazardous Class 5.1

Packing Group III

15. TOXICOLOGICAL INFORMATION

REACH Title VII Restrictions

| | |
|--|--------------------------|
| Chemical Name: | No information available |
| Dangerous Substances: | Ammonium Persulfate |
| Organic Solvents: | >=>=0.1% weight |
| Harmful Substances Whose Names are to be indicated on the Label: | Not applicable |
| Pollution Release and Transfer Registry (Class II): | Not applicable |
| Pollution Release and Transfer Registry (Class I): | Not applicable |
| Poison and Deleterious Substances Control Law: | Not applicable |
| ISHA – Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying: | Not applicable |
| ISHA – Harmful Substances Requiring Permission: | Not applicable |
| Toxic Chemical Classification Listing (TCCL): | Not applicable |
| Toxic Release Inventory (TRI) – Group I: | Not applicable |
| Toxic Release Inventory (TRI) – Group II: | Not applicable |

MATERIAL SAFETY DATA SHEET

IB70080 – AMMONIUM PERSULFATE

International Inventories

| | |
|----------------|----------|
| TSCA: | Complies |
| DSL: | Complies |
| EINECS/ELINCS: | Complies |
| ENCS: | Complies |
| IECSC: | Complies |
| KECL | Complies |
| PICCS | Complies |
| AICS | Complies |

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical/chemicals which are subject to the reporting requirements of the Act & Title 40 of the Code of Federal Regulations, part 372.

| | |
|---------------------------|----------------------------------|
| Chemical Name: | Ammonium Persulfate - #7727-54-0 |
| Weight (%): | 95-100 |
| SARA 313 – Threshold (%): | 1.0 |

SARA 311/312 Hazard Categories

| | |
|-----------------------------------|-----|
| Acute Health Hazard | Yes |
| Chronic Health Hazard | No |
| Fire Hazard | No |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard | Yes |

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act

This product does not contain any substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act.

CERCLA

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

International Regulations

Mexico

No information available

Canada

No information available

WHMIS Hazard Class

C – Oxidizing materials

D2A – Very toxic materials

D2B – Toxic materials

**16. OTHER INFORMATION****Issuing Date:** 22-Dec-1997**Revision Date:** 21-Dec-2011**Revision Note:** Update to GHS Standard**Recommended Restrictions:** No information available

Disclaimer: The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal, and release; and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the test.

End of MSDS