

SAFETY DATA SHEET

Preparation Date: 05/29/2015

Revision Date: 05/29/2015

Revision Number: G1

Product identifier

Product code: P1145
Product Name: PICRIC ACID, CRYSTAL, REAGENT, ACS

Other means of identification

Synonyms: Picric acid, wetted with a minimum of 30% water to keep it stabilized
 1,3,5-Trinitrophenol
 2,4,6-Trinitrofenol [Dutch]
 2,4,6-Trinitrofenolo [Italian]
 2,4,6-Trinitrophenol
 2-Hydroxy-1,3,5-trinitrobenzene
 Acide picrique [French]
 Acido picrico [Italian]
 Acidum picrinicum
 Carbazotic acid
 Kyselina pikrova [Czech]
 Melinite
 Nitroxanthic acid
 Phenol trinitrate
 Phenoltrinitrate
 Picral
 Picronitric acid
 Pikrinezuur [Dutch]
 Pikrinsaeure [German]
 Pikrynowy kwas [Polish]
 Trinitrophenol
CAS #: 88-89-1
RTECS # TJ7875000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Solvent. Explosive. Manufacture of matches. Colored glass. Mordant in textile and leather industries. In electric batteries. Rocket fuels. Dyes.
Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp
 14422 South San Pedro St.
 Gardena, CA 90248
 (310) 516-8000

Order Online At: <https://www.spectrumchemical.com>

Emergency telephone number Chemtrec 1-800-424-9300
Contact Person: Martin LaBenz (West Coast)
Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 3
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3
Flammable solids	Category 1

Label elements

Danger

Hazard statements

Toxic if swallowed
Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
May cause respiratory irritation
Flammable solids



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Can explode on contact if water content is below 10%
Do not allow this material to dry out
May form shock-sensitive mixtures on contact with metals
Can violently decompose at elevated temperatures

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed out of the workplace
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/ /equipment
Wear protective gloves
Wear eye/face protection

Precautionary Statements - Response

Specific treatment (see .? on this label)
Specific treatment (see .? on this label)
In case of fire: Use CO2, dry chemical, or foam to extinguish.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
IF ON SKIN: Wash with plenty of soap and water
Take off contaminated clothing and wash before reuse
If skin irritation or rash occurs: Get medical advice/attention
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Rinse mouth

Precautionary Statements - Storage

Store locked up
Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %	Trade Secret
Picric Acid 88-89-1	88-89-1	100	*

4. FIRST AID MEASURES**First aid measures****General Advice:**

Poison information centers in each State capital city can provide additional assistance for scheduled poisons (13 1126)

Skin Contact:

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention. If skin irritation persists, call a physician.

Eye Contact:

Flush eye with water for 15 minutes. Get medical attention.

Inhalation:

Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive.

Ingestion:

Toxic if swallowed. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediate medical attention is required. Call a physician or Poison Control Center immediately.

Most important symptoms and effects, both acute and delayed**Symptoms**

Causes serious eye irritation. Causes a strange visual effect call "yellow-tainted vision". May cause corneal injury. Causes skin irritation. Yellow discoloration of skin. May cause allergic skin reaction. Possible burns of the skin and eyes. May cause irritation of respiratory tract. May cause abdominal pain, nausea, vomiting, diarrhea. Possible corrosion and tissue destruction of the esophagus and digestive tract. Bright yellow stools. Thirst. Sweating. Bitter taste in mouth. May affect the cardiovascular system. Central nervous system effects. May cause headache. Dizziness. May affect the liver. It may affect the kidneys. It may affect the blood.

Indication of any immediate medical attention and special treatment needed**Notes to Physician:**

Treat symptomatically

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

5. FIRE-FIGHTING MEASURES**Extinguishing Media****Suitable Extinguishing Media:**

Dry chemical. Carbon dioxide (CO₂). Water spray mist or foam.

Unsuitable Extinguishing Media:

No information available.

Specific hazards arising from the chemical**Hazardous Combustion Products:**

Carbon oxides; Nitrogen oxides

Specific hazards:

Flammable
Explosive in presence of open flames and sparks, of shocks, of heat, of metals, of alkalis
Dry mixtures of picric acid and aluminum powder are inert, but addition of water causes ignition after a delay depending upon the quantity added
Flammable solid when exposed to heat or flame.
Picric acid and bases form explosives salts. Ammonia and metals with picric acid give results similar to bases. Contact between picric acid and concrete floors leads to the formation of explosion-sensitive salts, such as calcium picrate. Mixtures with uranium perchlorate are extremely powerful explosives. It forms unstable salts with concrete, ammonia, and bases. Many of these are heat, friction, or impact-sensitive. An explosive mixture results when the aqueous solution crystallizes. Keep Picric acid wet with water. Do not let dry picric acid (crystals) form in container or on the cap threads of container. A severe explosion hazard when shocked or exposed to heat. Dried out material may explode if exposed to heat, flame, friction or shock; treat as an explosive. Keep material wet with water or treat as an explosive. Explodes when heated to 300 C

Special Protective Actions for Firefighters**Specific Methods:**

Flood fire with large quantities of water. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion. Continue to cool containers until well after fire is out.

Special Protective Equipment for Firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk.

Methods for cleaning up Never allow spilled material to dry. Dampen with water without stirring. Never attempt to sweep up dry material. Use a spill response pad or pillow that is dampened with water to absorb the spilled material. Collect the picric acid - containing waste in plastic or glass bottles for disposal. Place the pads/pillows in an appropriate impervious container with water added. Clearly identify the waste container with "Picric Acid Waste" written on it. Wash area with soap and water. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. All equipment used when handling the product must be grounded. Keep away from incompatible materials.

Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapours/dust. Do not ingest. Avoid shock and friction. Keep away from heat and sources of ignition. Use only explosion-proof equipment. Do not use metal spatulas with removing or weighing out material. Remember, picric acid should never be allowed to dry out. Re-hydrate as needed to maintain wet paste. The water content should be at least 10% water by volume (recommended to be 30%). Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep containers tightly closed in a cool, well-ventilated place. Keep wetted with a minimum of 30% water. Keep away from heat and sources of ignition. Store away from incompatible materials. Do not store in metal containers. Store in a segregated and approved area.

Incompatible Materials:

Oxidizing agents. Reducing agents. Metals. Alkalis. Copper. Lead. Zinc. Salts. Plaster. Concrete. Ammonia. Albumin. Gelatin. Uranium perchlorate.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
Picric Acid 88-89-1	0.1 mg/m ³ TWA	= 0.1 mg/m ³ TWA	= 0.1 mg/m ³ TWA	None

Canada

Components	Alberta	British Columbia	Ontario	Quebec
Picric Acid 88-89-1	= 0.1 mg/m ³ TWA	= 0.1 mg/m ³ TWA	0.1 mg/m ³ TWA	0.1 mg/m ³ TWA EV

Australia and Mexico

Components	Australia	Mexico
Picric Acid 88-89-1	0.1 mg/m ³ TWA	= 0.1 mg/m ³ TWA

Appropriate engineering controls

Engineering measures to reduce exposure:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

- Eye protection:** Goggles or Safety glasses with side-shields
- Skin and body protection:** Chemical resistant apron. Long sleeved clothing. Gloves.
- Respiratory protection:** Wear respirator with dust filter. Be sure to use an approved/certified respirator or equivalent.
- Hygiene measures:** Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid.	Appearance: Crystals wetted with water, giving a consistency of wet sand.	Color: Yellow.
Odor: Odorless.	Taste Bitter.	Molecular/Formula weight: 229.11
Formula: C ₆ H ₂ (NO ₂) ₃ OH	Flammability: flammable solid	Flash point (°C): 150°C
Flashpoint (°C/°F): 150°C/ 302°F	Flash Point Tested according to: Closed cup	Lower Explosion Limit (%): No information available
Upper Explosion Limit (%): No information available	Autoignition Temperature (°C/°F): 300°C/ 572°F	pH: No information available
Melting point/range(°C/°F): 122.5°C/ 252.5°F	Boiling point/range(°C/°F): Explodes at 300°C/ 572°F	Decomposition temperature(°C/°F): No information available
Bulk density: No information available	Specific gravity: 1.763	Vapor pressure @ 20°C (kPa): No information available
Density (g/cm³): No information available	Evaporation rate: No information available	Vapor density: 7.9
VOC content (g/L): No information available	Odor threshold (ppm): No information available	Partition coefficient (n-octanol/water): 1.44
Viscosity: No information available	Miscibility: No information available	Solubility: Easily soluble in acetone. Soluble in hot water, diethyl ether. Partially soluble in cold water. Soluble in ethanol. Solubility in ethanol: 1 g/12 ml ethanol @ 25 deg. C Solubility in water: 1.27 x 10 ⁻⁴ mg/l @ 25 C; 1g/78 ml water @ 25 C; 1 g/15 ml boiling water. Solubility in Benzene: 1 g/10 ml @ 25 deg. C. Solubility in Chloroform: 1 g/35 ml @ 25 deg. C. Solubility in Ether: 1 g/65 ml @ 25 deg. C

10. STABILITY AND REACTIVITY

Reactivity

Highly reactive with metals, alkalis.

It may form shock-sensitive mixtures on contact with metals.

Reactive with oxidizing agents, reducing agents.

The product may undergo hazardous decomposition, condensation or polymerization, it may react violently with water to emit toxic gases or it may become self-reactive under conditions of shock or increase in temperature or pressure. Incompatible with copper, lead, zinc and other metals, salts, plaster, concrete, ammonia, oxidizing materials, reducing agents, albumin, gelatin, alkaloids(bases). Can react vigorously with oxidizing materials. Dry mixtures of picric acid and aluminum powder are inert, but addition of water causes ignition after a delay depending upon the quantity added. Picric acid and bases form explosive salts. Contact between picric acid and concrete floors leads to the formation of explosion-sensitive salts, such as calcium picrate. Mixtures with uranium perchlorate are extremely powerful explosives. It forms unstable salts with concrete, ammonia, and bases. Many of these are heat, friction, or impact-sensitive

Chemical stability

Stability:

Stable under recommended storage conditions. Keep picric acid wet with water. Do not allow water to evaporate from product. An explosive mixture results when the aqueous solution crystallizes. Do not let dry picric acid (crystals) form in container or on the cap threads of container. Dry picric acid is explosive. It can explode if water content is below 10%.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Ignition sources. Incompatible materials. Dry picric acid is explosive.

Incompatible Materials: Oxidizing agents. Reducing agents. Metals. Alkalies. Copper. Lead. Zinc. Salts. Plaster. Concrete. Ammonia. Albumin. Gelatin. Uranium perchlorate.

Hazardous decomposition products: Carbon oxides. Nitrogen oxides (NO_x).

Other Information

Corrosivity: Corrodes on contact with metals

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Skin. Eyes. Inhalation. Ingestion.

Acute Toxicity

Component Information

Picric Acid - 88-89-1

LD50/oral/rat = 200 mg/kg Oral LD50 Rat

LD50/oral/mouse = No information available

LD50/dermal/rat = No information available

LD50/dermal/rabbit = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No information available

Other LD50 or LC50 information = No information available

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = 200mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

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VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Causes severe skin irritation and possible burns. It may dye the skin yellow. It may be absorbed by the skin, particularly through broken skin. If it is absorbed through the skin and it can cause symptoms similar to those of ingestion.

Eye Contact: Causes severe eye irritation and possible burns. May cause corneal injury. May cause a strange visual effect known as "yellow-tainted vision".

Inhalation Inhalation of mist may cause respiratory tract irritation with coughing and shortness of breath. In normal use, Picric acid is a wetted solid or solution that does not readily form a vapor. This material has a low vapor pressure, so exposure to vapor is not likely under normal handling conditions..

Ingestion Toxic if swallowed! May cause gastrointestinal tract irritation with bitter taste in mouth, abdominal pain, nausea, vomiting, hypermotility, diarrhea, malaise, thirst, increased sweating, bright yellow stools, yellow discoloration of skin, and possible corrosion and permanent tissue destruction of the esophagus and digestive tract. May affect behavior/central nervous system/nervous system (CNS depression, restlessness, anxiety, excitement, hyperactivity, vertigo, weakness, myalgia, headache, stupor, tremor, convulsions, loss of consciousness, coma), cardiovascular system (tachypnea, dysrhythmias, elevation in blood pressure, rapid pulse), metabolism (marked increases in metabolism and temperature, electrolyte abnormality), respiration (respiratory depression, hyperpnea, dyspnea), kidneys/urinary system (anuria, oliguria, polyuria, hematuria, albuminuria, renal lesions, hemorrhagic nephritis), liver (acute hepatitis, jaundice). High doses may also affect the blood (destruction of red blood cells (hemolytic anemia), agranulocytosis, leukopenia). May also cause cyanosis (a bluish discoloration of the skin due to deficient oxygenation of the blood).

Aspiration hazard No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Skin: Prolonged or repeated skin contact may cause allergic or sensitization dermatitis. May cause blistering and flaking of the skin, especially around the mouth and sides of nose.
Eyes: Prolonged or repeated eye contact may cause cataracts, conjunctivitis. Prolonged or repeated skin and eye contact may also cause yellow staining of skin/hair and eyes, and "yellow vision."
Ingestion: Prolonged or repeated ingestion will cause symptoms similar to that of acute ingestion.

Sensitization: May cause sensitization by skin contact

Mutagenic Effects: May affect genetic material
Mutations in microorganisms
Experiments with bacteria and/or yeast have shown mutagenic effects

Carcinogenic effects: Not considered carcinogenic

Components	ACGIH - Carcinogens	IARC	NTP	OSHA HCS - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
Picric Acid	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

Reproductive toxicity No data is available

Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure Respiratory Tract.
STOT - repeated exposure No information available
Target Organs: Kidneys. Skin. Blood. Eyes. Liver.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Picric Acid	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: UN1344
Proper Shipping Name: Trinitrophenol, wetted
Hazard Class: 4.1

Product code: P1145

Product name: PICRIC ACID,
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14. TRANSPORT INFORMATION

Subsidiary Risk:	No information available
Packing Group:	I
ERG No:	113
Marine Pollutant	No data available
DOT RQ (lbs):	No information available
Symbol(s):	

TDG (Canada)

UN-No:	UN1344
Proper Shipping Name:	Trinitrophenol, wetted
Hazard Class:	4.1
Subsidiary Risk:	No information available
Packing Group:	I
Description:	No information available

ADR

UN-No:	UN1344
Proper Shipping Name:	Trinitrophenol, wetted
Hazard Class:	4.1
Packing Group:	I
Subsidiary Risk:	No information available
Classification Code:	No information available
Description:	No information available
CEFIC Tremcard No:	No information available

IMO / IMDG

UN-No:	UN1344
Proper Shipping Name:	Trinitrophenol, wetted
Hazard Class:	4.1
Subsidiary Risk:	No information available
Packing Group:	I
Description:	No information available
IMDG Page:	No information available
Marine Pollutant	No information available
EMS:	F-B
MFAG:	No information available
Maximum Quantity:	No information available

RID

UN-No:	UN1344
Proper Shipping Name:	Trinitrophenol, wetted
Hazard Class:	4.1
Subsidiary Risk:	No information available
Packing Group:	I
Classification Code:	No information available
Description:	No information available

ICAO

UN-No:	UN1344
Proper Shipping Name:	Trinitrophenol, wetted
Hazard Class:	4.1
Subsidiary Risk:	No information available
Packing Group:	I
Description:	No information available

IATA

Product code: P1145

Product name: PICRIC ACID,
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14. TRANSPORT INFORMATION

UN-No: UN1344
Proper Shipping Name: Trinitrophenol, wetted
Hazard Class: 4.1
Subsidiary Risk: No information available
Packing Group: I
ERG Code: 3E
Description: No information available

15. REGULATORY INFORMATION

International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
<i>Picric Acid</i>	Present	Present KE-34715	Present	Present (3)-823	Present	Present	Present 201-865-9

U.S. Regulations

Picric Acid

Massachusetts RTK: Present
New Jersey RTK Hazardous Substance List: 1946
New Jersey (EHS) List: 1946 500 lb TPQ
New Jersey - Discharge Prevention - List of Hazardous Substances: Present
New Jersey TCPA - EHS: =2500lbTQ
Pennsylvania RTK: Environmental hazard
Pennsylvania RTK - Environmental Hazard List Present
Pennsylvania RTK - Special Hazardous Substances Present
Minnesota - Hazardous Substance List: Present
California Directors List of Hazardous Substances: Present

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
<i>Picric Acid</i>	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting <i>de minimis</i>
<i>Picric Acid</i>	None	None	None	None	1.0 % de minimis concentration

U.S. TSCA

Components	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
<i>Picric Acid</i>	Not Applicable	Not Applicable

Canada

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WHMIS hazard class:

D1B Toxic materials
D2B Toxic materials
E Corrosive material
F Dangerously reactive material

Picric Acid

D1B D2B E F

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Components	WHMIS Ingredient Disclosure List -
Picric Acid	1 %

Inventory

Components	Canada (DSL)	Canada (NDSL)
Picric Acid	Present	Not Listed

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Picric Acid	Not listed	Not listed

EU Classification**R-phrase(s)**

R 3 - Extreme risk of explosion by shock, friction, fire or other sources of ignition.

R 4 - Forms very sensitive explosive metallic compounds.

R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed.

S -phrase(s)

S28 - After contact with skin, wash immediately with plenty of water

S35 - This material and its container must be disposed of in a safe way.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 1/2 - Keep locked up and out of the reach of children.

S36/37 - Wear suitable protective clothing and gloves.

Components	Classification	Concentration Limits:	Safety Phrases
Picric Acid	T; R23/24/25 E; R3 R4	No information	S1/2 S28 S35 S36/37 S45

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

T - Toxic

E - Explosive.



16. OTHER INFORMATION

Preparation Date: 05/29/2015
Revision Date: 05/29/2015
Prepared by: Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet