



CoNTROL™
POWERAG™

SAFETY DATA SHEET

according to Federal Register Vol. 77, No. 58
Monday, March 26, 2012
Rules and Regulations
SDS Reference Number: 40346
Issue date: 11/1/2024

SECTION 1: IDENTIFICATION

1.1. Product identifier

Chemical form: Mixture

Trade name: CoNtrol

Product code/formula: 40346

1.2. Recommended use and restrictions on use

No additional information available.

1.3. Details of the supplier of the safety data sheet

PowerAG

2213 Leabrook Road, Lancaster PA 17601

1-800-842-2578 powerag.com

1.4. Emergency telephone number

Emergency number: 1-800-424-9300 ChemTrec

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

GHS-US classification

Acute toxicity (oral), Category 4

H302

Harmful if swallowed.

Skin corrosion/irritation, Category 2

H315

Causes skin irritation.

Serious eye damage/eye irritation, Category 1

H318

Causes serious eye damage.

Reproductive toxicity, Category 2

H361

Suspected of damaging fertility or the unborn child.

Full text of H-statements: see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US): Danger

Hazard statements (GHS US)

H302: Harmful if swallowed.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H361: Suspected of damaging fertility or the unborn child.

Precautionary statements (GHS US)

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P264: Wash hands, forearms and face thoroughly after handling.

P270: Do not eat, drink, or smoke when using this product.

P280: Wear eye protection, face protection, skin protection, clothing protection.

P301 + P312: If swallowed, call a doctor or poison control center if ingested or eye contact has occurred if you feel unwell.

P302+P352: If on skin, wash with plenty of water.

P305+P351+P338: IF IN EYES, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313: If exposed or concerned, get medical advice/attention.

P310: Immediately call a doctor or poison control center if ingested or eye contact has occurred.

P321: Specific treatment (see additional precautions on this label).

P330: Rinse mouth.

P332 + P313: If skin irritation occurs, get medical advice/attention.

P362 + P364: Take off contaminated clothing and wash it before reuse.

P405: Store locked up.

P501: Dispose of contents/container to Dispose of at a licensed hazardous waste facility in accordance with state and local regulations.

2.3. Other hazards which do not result in classification

No additional information available.



PowerAG | CoNtrol | Safety Data Sheet

2.4. Unknown acute toxicity (GHS US)

No additional information available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
N-(n-butyl) thiophosphoric triamide (NBPT)	CAS-No.: 94317-64-3	30	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Eye Dam. 1, H318 Repr. 2, H361

Full text of hazard classes and H-statements: See section 16.

SECTION 4: FIRST-AID MEASURES

4.1. Description of first aid measures

First-aid measures general: Never give anything by mouth to an unconscious person. If exposed or concerned, get medical advice/attention.

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact: If skin irritation occurs, get medical advice/attention. Wash with plenty of water. Wash contaminated clothing before reuse. If skin irritation occurs, get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label).

First-aid measures after eye contact: 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. Immediately call a POISON CENTER/doctor.

First-aid measures after ingestion: Call a poison center or a doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER/doctor if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Potential adverse human health effects and symptoms: Based on available data, the classification criteria are not met. Harmful if swallowed.

Symptoms/effects: Suspected of damaging fertility or the unborn child.

Symptoms/effects after skin contact: Irritation. Causes skin irritation.

Symptoms/effects after eye contact: Mild eye irritation. Causes serious eye damage.

Symptoms/effects after ingestion: Swallowing a small quantity of this material will result in serious health hazard.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Water spray. Dry powder. Foam. Carbon dioxide. Sand.

Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire: Toxic fumes may be released.

5.3. Special protective equipment and precautions for firefighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures: Ventilate spillage area. Avoid contact with skin and eyes. Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection." Equip cleanup crew with proper protection.

Emergency procedures: Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Other information: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13. See Section 8. Exposure controls and personal protection.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautions for safe handling: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Hygiene measures: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash hands, forearms and face thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep only in original container in a cool well ventilated area. Keep container closed when not in use.

Incompatible products: Strong bases and strong acids.

Incompatible materials: Sources of ignition. Direct sunlight.

Storage temperature: 25 (5–42) °C, DO NOT FREEZE

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No additional information available.

8.2. Appropriate engineering controls

Appropriate engineering controls: Ensure good ventilation of the work station.

Environmental exposure controls: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment: Avoid all unnecessary exposure.

Hand protection: Wear protective gloves.

Eye protection: Safety glasses. Chemical goggles or safety glasses.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: Wear appropriate mask.

Personal protective equipment symbol(s):



Other information: Do not eat, drink or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state: Liquid

Color: Dark green

Odor: Characteristic odor

Odor threshold: No data available.

pH: ≥ 7

Melting point: Not applicable

Freezing point: ≤ 0 °C

Boiling point: ≥ 100 °C



PowerAG | CoNtrol | Safety Data Sheet

Flash point: 108 °C

Relative evaporation rate (butylacetate=1): No data available.

Flammability (solid, gas): Non flammable.

Vapor pressure: No data available.

Relative vapor density at 20 °C: No data available.

Relative density: No data available.

Density

Solubility: Soluble in water.

Partition coefficient n-octanol/water (Log Pow): No data available

Auto-ignition temperature: No data available.

Decomposition temperature: No data available.

Viscosity, kinematic: No data available.

Viscosity, dynamic: No data available.

Explosive limits: No data available.

Explosive properties: No data available.

Oxidizing properties: No data available.

9.2. Other information

VOC content: ≤ 730 g/l

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity (oral): Harmful if swallowed.

Acute toxicity (dermal): Not classified

Acute toxicity (inhalation): Not classified

30% NBPT

ATE US (oral) 500 mg/kg bodyweight

N-(n-butyl) thiophosphoric triamide (NBPT) (94317-64-3)

LD50 oral rat 2000 mg/kg

LD50 dermal rat 2000 mg/kg

ATE US (oral) 2000 mg/kg bodyweight

ATE US (dermal) 2000 mg/kg bodyweight

Skin corrosion/irritation: Causes skin irritation.

pH: ≥ 7

Serious eye damage/irritation: Causes serious eye damage.

pH: ≥ 7

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Suspected of damaging fertility or the unborn child.

STOT-single exposure: Not classified

STOT-repeated exposure: Not classified

Aspiration hazard: Not classified

Viscosity, kinematic: No data available



PowerAG | CoNtrol | Safety Data Sheet

N-(n-butyl) thiophosphoric triamide (NBPT) (94317-64-3)

Viscosity, kinematic: Not applicable

Potential adverse human health effects and symptoms: Based on available data, the classification criteria are not met. Harmful if swallowed.

Symptoms/effects: Suspected of damaging fertility or the unborn child.

Symptoms/effects after skin contact: Irritation. Causes skin irritation.

Symptoms/effects after eye contact: mild eye irritation. Causes serious eye damage.

Symptoms/effects after ingestion: Swallowing a small quantity of this material will result in serious health hazard.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology—general: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

N-(n-butyl) thiophosphoric triamide (NBPT) (94317-64-3)

LC50 - Fish [1]: ≥ 1140 mg/l Bluegill

EC50 - Crustacea [1]: ≥ 290 mg/l

12.2. Persistence and degradability

30% NBPT

Persistence and degradability: Not established.

N-(n-butyl) thiophosphoric triamide (NBPT) (94317-64-3)

Persistence and degradability: Not established.

12.3. Bioaccumulative potential

30% NBPT

Bioaccumulative potential: Not established.

N-(n-butyl) thiophosphoric triamide (NBPT) (94317-64-3)

Bioaccumulative potential: Not established.

12.4. Mobility in soil

No additional information available.

12.5. Other adverse effects

Other information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Disposal methods

Waste treatment methods: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations: Dispose of contents/containers in hazardous or special waste collection point, an approved disposal plant, a licensed hazardous waste disposal contractor or authorized waste collection site in accordance with local, regional and/or international regulation, except for empty clean containers which can be disposed of as non hazardous waste. Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Ecological waste information: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN-No.(DOT): Not applicable

UN-No. (TDG): Not applicable

UN-No. (IMDG): Not applicable

UN-No. (IATA): Not applicable

14.2. UN proper shipping name

Proper Shipping Name (DOT): Not applicable

Proper Shipping Name (TDG): Not applicable

Proper Shipping Name (IMDG): Not applicable

Proper Shipping Name (IATA): Not applicable

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT): Not applicable.



PowerAG | CoNtrol | Safety Data Sheet

TDG

Transport hazard class(es) (TDG): Not applicable.

IMDG

Transport hazard class(es) (IMDG): Not applicable.

IATA

Transport hazard class(es) (IATA): Not applicable.

14.4. Packing group

Packing group (DOT): Not applicable.

Packing group (TDG): Not applicable.

Packing group (IMDG): Not applicable.

Packing group (IATA): Not applicable.

14.5. Environmental hazards

Other information: No supplementary information available.

14.6. Special precautions for user

DOT

Not applicable.

TDG

Not applicable.

IMDG

Not applicable.

IATA

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA)

Name	CAS No.	Listing	Commercial status	Flags
N-(n-butyl) thiophosphoric triamide (NBPT)	94317-64-3	Present	Active	PMN;S

15.2. International regulations

CANADA

N-(n-butyl) thiophosphoric triamide (NBPT) (94317-64-3)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations: No additional information available.

National regulations: No additional information available.

15.3. US State regulations

No additional information available.

SECTION 16: OTHER INFORMATION

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Other information: Some testing has been conducted to assess the stability and compatibility of this product with certain herbicides and adjuvants. Test results show that the rate of the degradation should not preclude the use of this product with most commonly used agricultural herbicides under normal use. Most agricultural chemicals compatible with UAN solutions are also compatible with this product. However, compatibility tests prior to use are recommended. Glyphosate herbicides may cause an increase in the rate of degradation when tank-mixed with this product. Therefore such mix should be applied soon after mixing to avoid a possible reduction in the effectiveness of the active ingredient. Product should not be combined with Dicyandiamide (DCD) products. None.

Full text of hazard classes and H-statements

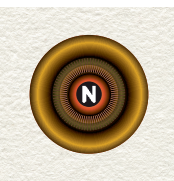
H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H361: Suspected of damaging fertility or the unborn child.



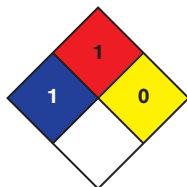
PowerAG | CoNtrol | Safety Data Sheet

NFPA health hazard: 1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard: 1 - Materials that must be preheated before ignition can occur.

NFPA reactivity: 0 - Material that in themselves are normally stable, even under fire conditions.

NFPA specific hazard: None



Hazard Rating

Health: 1 Slight Hazard—Irritation or minor reversible injury possible.

Flammability: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-explosive.

Personal protection: B—Safety glasses, gloves.

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.