



Product: Bug Squash
Revision Date: 2/17/16

SAFETY DATA SHEET

Section 1. Product and Company Identification

Product Name: Bug Squash
Recommended Use(s): Cleaner
None-Recommended / Restricted Use(s): None
Distributor: Poorboy's World UK
Bretfield Court
Dewsbury, WF12 9BG
United Kingdom
Emergency Contact: **General:** 01924 469920 UK Sales
General: +44 (0) 1924 469920 Overseas
Emergency: 1-352-323-3500 International Emergency Hotline

Section 2. Hazard Identification

GHS Classification for mixture:

Serious eye damage/eye irritation - Category 1
Skin corrosion/irritation - Category 1
Corrosive to metals - Category 1

Pictograms:



Signal Word :

WARNING

Hazard Statements:

H302: Harmful if swallowed
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H290: May be corrosive to metals.

Precautionary Statements:

Prevention:

P280: Wear protective gloves/protective clothing/eye protection/face protection.
P270: Do not eat, drink or smoke when using this product
P264: Wash skin thoroughly after handling.

Response

P301+P312: IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.

P330: Rinse mouth.

P302+P352: IF ON SKIN: wash with plenty of soap and water

P362: Take off contaminated clothing and wash before reuse.

P332+P313: IF SKIN irritation occurs: Get medical advice/attention.

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+P313P: IF eye irritation persists: Get medical advice/attention.

P390: Absorb spillage to prevent material damage.

Storage

P234: Keep only in original container.

P406: Store in corrosive resistant container with a resistant inner liner.

Disposal

P501: Dispose of contents/container to an approved waste disposal plant.

Section 3. Composition / Information on Ingredients

Identifiers	Ingredients	Percentage	Classification
111-76-2	Ethylene glycol monobutyl ether	1% to 5%	Acute oral ⁴ , Acute inhalation ⁴ , Acute dermal ⁴ , skin irrit ² , eye irrit ² .
1310-58-3	Potassium hydroxide	1% to 5%	Skin corr ¹ , Eye corr ¹ , Met corr ¹
7758-29-4	Sodium tripolyphosphate	1% to 5%	Skin irrit ² , Eye irrit ² , STOT se resp 3
127087-87-0	Nonylphenol polyethylene glycol ether	1% to 5%	Acute Tox, oral ⁴ ; Inhalation ⁴ Eye Dam ¹ ; Skin irrit ² ; Env acute ² ; Env chronic ²

Section 4. First-Aid Measures

First-Aid: Eyes

Immediately flush with clean, low-pressure water for several minutes. Hold eyelids open to ensure adequate flushing. Remove the contact lenses if worn and easy to do that. Continue rinsing. Seek medical attention.

First-Aid: Skin

Wash contaminated areas thoroughly with water. Take off all contaminated clothing and wash it before reuse. If redness or other symptoms occur, seek medical advice.

First-Aid: Ingestion

If the exposed person is conscious, give 2-3 cups of water or liquid. Small amounts of material which enter the mouth should be rinsed out until the taste is dissipated.

First-Aid: Inhalation

If after inhalation you feel unwell, seek medical advice.

First-Aid: Other

Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person. In all cases if in doubt or when symptoms persist, seek medical advice.

Section 5. Fire-Fighting Measures

Suitable Extinguishing Media

The suggested appropriate media: Alcohol-resistant foam. Carbon dioxide. Powder BC. Water spray.

Unsuitable Extinguishing Media

Inappropriate media: Straight streams of water.

Combustion Products

Carbon dioxide (CO₂). Carbon monoxide (CO). Oxides of nitrogen (NO_x).

Other Information for Fire Fighters

Corrosive to metals.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Avoid being exposed to gas / mist / dust / fume / vapor / spray / particles. Avoid breathing gas / mist / dust / fume / vapor / spray / particles. Ventilate area of leak or spill. Wear appropriate chemical resistant gloves.

Environmental Precautions

Dike area to prevent runoff and contamination of water sources.

Clean-up Procedures

Absorb with cloth, fleece, sawdust, kieselgur, sand or other universal binder. Stop leak if safe to do so.

Section 7. Handling and Storage

Precautions for Safe Handling

Wear protective gloves, clothing, and protective goggles to prevent contact with skin and eyes. Ensure there is sufficient ventilation of the area. Report immediately if physical damage, leakage, or spillage occurs. Do not use metal instruments when handling this product.

Conditions for Safe Storage

Conditions to avoid: keep away from acids.

Section 8. Exposure Controls / Personal Protection

Control Parameters / Limits for Component

Ethylene glycol monobutyl ether

DNEL/DMEL Consumer Inhalation Chronic	49 mg/m ³ , Systemic effects.
DNEL/DMEL Consumer Dermal Chronic	38 mg/kg/d, Systemic effects.
PNEC Seawater	0.88 mg/l.
PNEC Freshwater	8.8 m/l.
PNEC Soil	2.8 mg/kg.
DNEL/DMEL Consumer Oral Chronic	3.2 mg/kg/d, Systemic effects.
DNEL/DMEL Consumer Inhalation Acute	123 mg/kg, Local effects.
NIOSH	TWA 5 ppm. 24 mg/m ³ .
ACGIH	TWA 20 ppm.
OSHA PEL	50 - 240 mg/m ³ .

Potassium hydroxide

DNEL/DMEL Worker Inhalation Chronic	1 mg/m ³ , Local effects.
DNEL/DMEL Consumer Inhalation Chronic	1 mg/m ³ , Local effects.
NIOSH	2 mg/m ³ .
ACGIH	2 mg/m ³ .
OSHA PEL	2 mg/m ³ .
Sodium tripolyphosphate	
DNEL/DMEL General Population Inhalation Acute	0.375 mg/kg, Systemic effects.
DNEL/DMEL General Population Dermal Chronic	0.375 mg/kg, Systemic effects.
PNEC Seawater	0.005 mg/l.
PNEC Freshwater	0.005 mg/l.

Engineering Measures

Provide adequate general and local exhaust ventilation.

Respiratory Protection

No special respiratory protection specified for the product.

Eye/Face Protection

Wear safety goggles.

Skin and Body Protection

Wear appropriate chemical resistant clothing.

Hand Protection

Wear appropriate chemical resistant gloves.

Hygiene Measures

Use in accordance with good hygiene and safety practice. Wash Hands thoroughly after handling.

Section 9. Physical and Chemical Properties

Basic physical and chemical properties Information

Physical State	liquid
Appearance	Blue
Odor	Strong
Odor threshold	Not available
pH	13 at 25°C
Melting point	Not available
Boiling point	100°C / 212°F
Flash Point	Greater than 100°C / 212°F
Evaporation rate w/r/t ether	Not available
Evaporation rate w/r/t butyl acetate	Not available
Flammability	Not available

Flammability limit	Not available
Vapor pressure	3169 Pa @ 25°C / 77°F
Vapor density	Not available
Relative density w/r/t water	Not available
Relative density w/r/t air	Not available
Relative density w/r/t other substance	Not available
Solubility	Not available
Solubility in other solvents	Not available
Partition coefficient	Not available
Auto-ignition temperature	230°C / 446°F
Decomposition temperature	Not available
Viscosity	Not available
Freezing point	Not available

Section 10. Chemical Stability & Reactivity Information

Stability/Reactivity

Chemical stability: This product is stable under ambient condition.

Reactivity: The product is known to be non-reactive in ambient conditions.

Possibility of Hazardous Reactions

Dangerous reactions are not expected if the technical instructions in storage of chemicals are met. Hazardous polymerization will not occur under normal conditions.

Conditions to Avoid

Keep away from: Cold. Direct sunlight.

Hazardous Products of Decomposition

Hazardous polymerization does not occur.

Decomposition will Result in Production of : Carbon dioxide (CO₂). Carbon monoxide (CO).

Section 11. Toxicological Information

Toxicological Information for Component

Ethylene glycol monobutyl ether

LOAEC Inhalation	152 mg/m ³ , Rat (Target Organ(s):Blood).
NOAEL Dermal	150 mg/kg, Rat.
LOAEL Oral	69 mg/kg, Rat (Target Organ(s): Liver).
LD 50 Oral	1300 mg/kg, Rat. 1400 g/kg, Guinea pig.
LC 50 Inhalation	4.9 mg/l, Rat. 3.4 mg/l, Guinea pig.

LD 50 Dermal 2000 mg/kg, Rat.
>2000 mg/kg, Guinea pig.

Sodium tripolyphosphate

LD 50 Oral >2000 mg/kg, Rat.

LC 50 Inhalation >0.39 mg/l(4h), Rat.

LD 50 Dermal 4640 mg/kg, Rabbit.

Potassium hydroxide

LD 50 Oral 273 mg/kg, Rat.

Irritation/Corrosion Information for Product

Skin: Causes severe skin burns and eye damage.

Eyes: Causes serious eye damage.

Irritation/Corrosion Information for Component

Potassium hydroxide

Skin: 50 mg/24h, severe.

Section 12. Ecological Information

Ecotoxicity Values for Component

Sodium tripolyphosphate

EC 50 Water Flea: 238.35 - 321.01 mg/l(4h), Ceriodaphnia dubia.

LC 50 Fish: 1650 mg/l.

Section 13. Disposal Considerations

Waste Disposal Regulation(s) / Operation

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of national pollutant discharge elimination systems. Users need to pay attention to the possible existence of regional or national regulations regarding disposal.

Section 14. Transportation Information

UN Number	1993.
UN Proper Shipping Name	Flammable liquids, n.o.s.
Hazard Class	3.
Packing Group	III.
DOT Proper Shipping Name	Flammable liquids, n.o.s. SP (B1, B52, IB3, T4, Tp1, TP29)
IMDG	Flammable liquids, n.o.s. SP (223, 274, 955), EmS (F-E, S-E) LQ (5L)
IATA/ICAO	Flammable liquids, n.o.s. SP (A3, E1) LQ (10L)



Section 15. Regulatory Information

Safety, Health and Environmental Regulations for Component

Ethylene glycol monobutyl ether

EUROPE: European Inventory of Existing Commercial Chemical Substances (EINECS): listed.

CANADA: NPRI VOCs with Additional Reporting Requirement: Mass reporting threshold/Identification Number 1 Tonne.
WHMIS: This component is categorized as a Controlled Product.
WHMIS Hazard Classification: B/3, D/1/A, D/2/B.
Canadian Domestic Substances List (DSL): listed.
Canadian Environmental Protection Act (CEPA): not listed.

US: SARA 311-312 Hazard Classification(s): immediate (acute) health hazard, delayed (chronic) health hazard, fire hazard.
TSCA (Toxic Substances Control Act): listed.
US EPCRA (SARA Title III) Section 313 - Toxic Chemical List: listed.
OSHA: listed as hazardous.

Potassium hydroxide

EUROPE: European Inventory of Existing Commercial Chemical Substances (EINECS): listed.
European List of Notified Chemical Substances (ELINCS): not listed.

CANADA: Canadian Domestic Substances List (DSL): listed.

US: SARA Section 311/312 (Specific toxic chemical listings): Reactive, Acute, Chronic.
SARA Section 313 (Specific toxic chemical listings): not listed.
RCRA (hazardous waste code): not listed.
TSCA (Toxic Substances Control Act): listed.
CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act): listed.
Proposition 65 (California): not listed.
SARA 304 (Emergency release notification): Not regulated.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): not listed.
SARA 302 (Extremely hazardous substance): Not listed.

Sodium tripolyphosphate

EUROPE: European Inventory of Existing Commercial Chemical Substances (EINECS): listed.

CANADA: Domestic Substances List (DSL): listed.
WHMIS Hazard Classification: D2B Toxic materials.

US: SARA 311-312 Hazard Classification(s): immediate (acute) health hazard, delayed (chronic) health hazard, fire hazard.
US EPCRA (SARA Title III) Section 313 - Toxic Chemical List: listed.
OSHA: listed as hazardous.
TSCA (Toxic Substances Control Act): listed.
Right to know: MA. NJ.

Nonylphenol polyethylene glycol ether

EUROPE: European Inventory of Existing Commercial Chemical Substances (EINECS): listed.

CANADA: Domestic Substances List (DSL): listed.

US: TSCA (Toxic Substances Control Act): listed.

Section 16. Other Information

ACGIH:	American Conference of Governmental Industrial Hygienists.
Acute tox:	Acute toxicity.
ADR:	Accord europeen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road).
ATE:	Acute Toxicity Estimate.
BCF:	BioConcentration Factor.
CAS:	Chemical Abstracts Service (Service that maintains the most comprehensive list of chemical substances).
CEPA:	Canadian Environmental Protection Act.
CERCLA:	Comprehensive Environmental Response, Compensation, and Liability Act.
CLP:	Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.
CMR:	Carcinogenic, Mutagenic or toxic for Reproduction.
DMEL:	Derived Minimal Effect Level.
DNEL:	Derived No-Effect Level.
DOT:	Department of Transportation USA.
DSL:	Canadian Domestic Substances List.
EC50:	Effective concentration of a substance that causes 50% of the maximum response
EINECS:	European Inventory of Existing Commercial chemical Substances.
ELINCS:	European List of Notified Chemical Substances.
EPA:	US Environmental Protection Agency.

ErC50:	ErC50 means EC50 in terms of reduction of growth rate after exposure.
Eye dam:	Damaging to eyes.
Eye irrit:	Irritant to the eye.
Flam liq:	Flammable liquid.
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals” developed by the United Nations.
IARC monographs:	IARC Monographs on the Evaluation of Carcinogenic Risks to Humans.
IATA/DGR:	Dangerous Goods Regulations (DGR) for the air transport (IATA).
ICAO:	International Civil Aviation Organization.
LD50:	The dose required to produce the death in 50 percent of the exposed species within a specified time.
LOAEC:	Lowest adverse effects concentrations.
Log KOW:	n-octanol/water.
MARPOL:	International Convention for the Prevention of Pollution from Ships (abbr. of Marine Pollutant).
Met corr:	Corrosive to metals.
N/A:	Not available.
N/D:	Not determined.
NDSL:	Canadian Non-Domestic Substances List.
NIOSH:	National Institute for Occupational Safety and Health.
NOAEL:	No-observed-adverse-effect-level.
OSHA:	Occupational Safety and Health Administration (United States).
PBT:	Persistent, Bioaccumulative and Toxic.
PEL:	Permissible exposure limit. An exposure limit that is published and enforced by OSHA as a legal standard.
PNEC:	Predicted No-Effect Concentration.
ppm:	Parts per million.
REL:	Recommended exposure limit.
RTECS:	Registry of Toxic Effects of Chemical Substances.
SARA:	Superfund Amendments and Reauthorization Act.
Skin . corr:	Corrosive to Skin.
Skin irrit:	Irritant to Skin.
TSCA:	Toxic Substances Control Act.
TWA:	Time-weighted average.
UN:	United Nations.
vPvB:	Very Persistent and Very Bioaccumulative.
WHIMIS:	Workplace Hazardous Materials Information System.