SAFETY DATA SHEET

QUATRABUFF

Infosafe No.: X01DH
Version No.: 1.0
ISSUED Date : 21/07/2021
ISSUED by: DKSH AGRISOLUTIONS NEW ZEALAND LIMITED

Section 1: Identification

Product Identifier
QUATRABUFF

Product Code
140010581

Company Name
DKSH AGRISOLUTIONS NEW ZEALAND LIMITED

Address
119 Carbine Road, Mt Wellington, Auckland 1060
NEW ZEALAND

Telephone/Fax Number
Telephone: +64 9 2593777

Emergency Phone Number
0800 154 666

Email
regaffairs.anz@dksh.com

Recommended uses and any restrictions on use or supply
Industrial application.

Section 2: Hazard identification

GHS classification of the substance/mixture
Classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017, New Zealand.
Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2020 Transport of Dangerous Goods on Land.
6.1C (Oral) - Substance that is acutely toxic
6.1D (Dermal) - Substance that is acutely toxic
8.1A Substance that is corrosive to metals
8.2B Substance that is corrosive to dermal tissue
8.3A Substance that is corrosive to ocular tissue
9.1C Substance that is harmful in the aquatic environment
9.3C Substance that is harmful to terrestrial vertebrates

Signal Word (s)
DANGER

Hazard Statement (s)
H290 May be corrosive to metals.
H301 Toxic if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H412 Harmful to aquatic life with long lasting effects.
H433 Harmful to terrestrial vertebrates.

Pictogram (s)
Skull and crossbones,Corrosion

Precautionary Statement –Prevention
P234 Keep only in original packaging.
P260a Do not breathe dusts or mists.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P280c Wear protective gloves/protective clothing.
P280e Wear eye protection/face protection.

Precautionary Statement –Response
P310 Immediately call a POISON CENTER/doctor.
P390 Absorb spillage to prevent material-damage.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P362+P364 Take off contaminated clothing and wash it before reuse.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Precautionary Statement –Storage
P405 Store locked up.
P406 Store in a corrosion resistant container with a resistant inner liner.

Precautionary Statement –Disposal
P501 Dispose of contents/container to an approved waste disposal plant.

Section 3: Composition/information on ingredients

Chemical Characterization
Liquid

Ingredients

Name	CAS	Proportion
Ethoxylated nonylphenol	9016-45-9	10-<25 %
Phosphoric acid	7664-38-2	20-40 %
Ingredients determined not to be hazardous		Balance

Section 4: First-aid measures

Inhalation
If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.

Ingestion
Do not induce vomiting. Immediately wash out mouth with water (never give anything by mouth if affected person is semi-conscious or unconscious). Seek immediate medical attention.

Skin
Remove all contaminated clothing immediately. Wash gently and thoroughly with water and non-abrasive soap for 15 minutes. Ensure contaminated clothing is washed before re-use or discard. Seek immediate medical attention.

Eye
If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek immediate medical attention.

First-aid Facilities
Eyewash, safety shower and normal washroom facilities.

Advice to Doctor
Treat symptomatically.

Other Information
For advice in an emergency, contact a Poisons Information Centre or a doctor at once. (0800 764 766)

Section 5: Fire-fighting measures

Suitable Extinguishing Media
Small Fire: dry chemical.
Large Fire: Water spray, water fog or foam.

Unsuitable Extinguishing Media
Do not use water jet.

Hazards from Combustion Products
Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including phosphates, carbon monoxide, carbon dioxide and oxides of nitrogen.

Specific hazards arising from the chemical
This product will burn if exposed to fire.

Decomposition Temperature
Not available

Precautions in connection with fire
Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from safe location.This product should be prevented from entering drains and watercourses.

Section 6: Accidental release measures

Emergency Procedures
Remove all sources of ignition. Evacuate all unprotected personnel. Do not allow contact with skin and eyes. Do not breathe mist/vapour. It is essential to wear self-contained breathing apparatus (S.C.B.A) and full personal protective equipment and clothing to prevent exposure. Avoid exposure to spillage by collecting the material using explosion proof vacuum and transfer into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

Section 7: Handling and storage

Precautions for Safe Handling
Toxic and corrosive and combustible liquid. Attacks skin and eyes. Causes burns. Avoid exposure. Exposure without protection must be prevented. Wear appropriate personal protective equipment and clothing to prevent exposure. Use in designated areas with local exhaust ventilation. DO NOT store or use in confined spaces. Build up of mists or vapours in the atmosphere must be prevented. Do not use near ignition sources. Do not pressurise, cut, heat or weld containers as they may contain hazardous residues. Maintain high standards of personal hygiene i.e. washing hands prior to eating, drinking, smoking or using toilet facilities.

Conditions for safe storage, including any incompatibilities
This material is Toxic, corrosive and combustible and must be stored, handled and maintained according to the appropriate regulations. Limit quantity in storage. Restrict access to storage area. Post appropriate warning signs. Consider leak detection and alarm systems, as required. Provide a catch-tank in a bunded area. Structural materials and lighting and ventilation systems in

storage area should be corrosion resistant. Store in a cool, dry, well-ventilated area away from sources of ignition, oxidizing agents, strong mineral acids, bases metal and/or water. Keep containers closed when not in use, securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures.
For information on the design of the storeroom, reference should be made to Australian Standard AS 3780 The storage and handling of corrosive substances, Australian Standard AS/NZS 4452 The storage and handling of toxic substances and Australian Standard AS1940 - The storage and handling of flammable and combustible liquids.

Corrosiveness
May be corrosive to metals.

Section 8: Exposure controls/personal protection

Occupational Exposure Limits (OEL)

Substance	Regulations	Exposure Duration	Exposure Limit	Units	Notes
Phosphoric acid	NZ OELs List	TWA	1	mg/m3	

Biological Limit Values
No biological limits allocated.

Appropriate Engineering Controls
This substance is toxic and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. Provide sufficient ventilation to keep airborne levels below the exposure limits or as low as possible. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a flameproof exhaust ventilation system is required. Alternatively, a process enclosure system such as a fume cupboard should be employed.

Respiratory Protection
If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements.
Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Eye Protection
Safety glasses with full face shield should be used. Eye protection devices should conform to relevant regulations.
Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 (series) - Eye Protectors for Industrial Applications.

Hand Protection
Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations.
Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

Body Protection
Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

Section 9: Physical and chemical properties

Properties	Description	Properties	Description
Form	Liquid	**Appearance**	Red liquid
Colour	Red	**Odour**	Not available
Decomposition Temperature	Not available	**Melting Point**	Not available
Freezing Point	<0 °C	**Boiling Point**	Not available
Solubility in Water	Miscible	**Specific Gravity**	1.2 (20 °C) (approximate)
pH	Acidic (1% aqueous solution)	**Vapour Pressure**	Not available
Vapour Density (Air=1)	Not available	**Evaporation Rate**	Not available
Viscosity	Refer to Section 9: Kinematic Viscosity and Dynamic Viscosity	**Volatile Component**	Not available
Partition Coefficient: n-octanol/water	Not available	**Flash Point**	Not available
Flammability	Not flammable	**Auto-Ignition Temperature**	Not available
Flammable Limits - Lower	Not available	**Flammable Limits - Upper**	Not available
Explosion Properties	Not available	**Oxidising Properties**	Not available
Kinematic Viscosity	Not available	**Dynamic Viscosity**	Not available

Section 10: Stability and reactivity

Reactivity
Refer to Section 10: Possibility of hazardous reactions

Chemical Stability
Stable under normal conditions of storage and handling.

Conditions to Avoid
Heat, open flames and other sources of ignition.

Incompatible Materials
Highly reactive with alkalis. Reactive with oxidizing agents. Slightly reactive to organic materials, metals.

Hazardous Decomposition Products
Thermal decomposition may result in the release of toxic and/or irritating fumes including: phosphatess, carbon monoxide, carbon dioxide and oxides of nitrogen.

Possibility of hazardous reactions
Reacts with incompatible materials.

Hazardous Polymerization
Not available

Section 11: Toxicological information

Toxicology Information
No toxicity data available for this material.

Ingestion
Toxic if swallowed. Ingestion of this product will cause nausea, vomiting, abdominal pain and chemical burns to the mouth, throat and stomach.

Inhalation
Inhalation of mist or vapour will result in respiratory irritation and possible harmful corrosive effects including burns, lesions of the nasal septum, pulmonary edema, and scarring of tissue.

Skin
Harmful in contact with skin. Product can be absorbed through skin with resultant harmful systemic effects. Causes burns. Corrosive to the skin. Skin contact can cause redness, itching, irritation, severe pain and chemical burns with resultant tissue destruction.

Eye
Causes serious eye damage. Eye contact will cause stinging, blurring, tearing, severe pain and possible burns, necrosis, permanent damage and blindness.

Respiratory Sensitisation
Not expected to be a respiratory sensitiser.

Skin Sensitisation
Not expected to be a skin sensitiser.

Germ Cell Mutagenicity
Not considered to be a mutagenic hazard.

Carcinogenicity
Not considered to be a carcinogenic hazard.

Reproductive Toxicity
Not considered to be toxic to reproduction.

STOT - Single Exposure
Not expected to cause toxicity to a specific target organ.

STOT - Repeated Exposure
Not expected to cause toxicity to a specific target organ.

Aspiration Hazard
Not expected to be an aspiration hazard.

Other Information
Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection. Repeated exposure to a highly toxic material may produce generaldeterioration of health by an accumulation in one or many human organs.

Section 12: Ecological information

Ecotoxicity
Harmful to aquatic life with long lasting effects. Harmful to terrestrial vertebrates.

Persistence and degradability
Not available

Mobility
Not available

Bioaccumulative Potential
Not available

Other Adverse Effects
Not available

Environmental Protection
Do not discharge this material into waterways, drains and sewers.

Hazardous to the Ozone Layer
This product is not expected to deplete the ozone layer.

Section 13: Disposal considerations

Disposal Considerations
Dispose of waste according to applicable local and national regulations. Do not allow into drains or watercourses or dispose of

where ground or surface waters may be affected. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations.
Product Disposal:
Product wastes are controlled wastes and should be disposed of in accordance with all applicable local and national regulations. This product can be disposed through a licensed commercial waste collection service. In this specific case the product is a combustible substance and therefore can be sent to an approved high temperature incineration plant for disposal.
Personal protective clothing and equipment as specified in Section 8 of this SDS must be worn during handling and disposal of this product. The ventilation requirements as specified in the same section must also be followed, and the precautions given in Section 7 of this SDS regarding handling must also be followed.
Do not dispose into the sewerage system. Do not discharge into drains or watercourses or dispose where ground or surface waters may be affected.
In New Zealand, the disposal agency or contractor must comply with the New Zealand Hazardous Substances (Disposal) Notice 2017. Further details regarding disposal can be obtained on the EPA New Zealand website under specific group standards.
Container Disposal:
The container or packaging must be cleaned and rendered incapable of holding any substance. It can then be disposed of in a manner consistent with that of the substance it contained. In this instance the packaging can be disposed through a commercial waste collection service.
Alternatively, the container or packaging can be recycled if the hazardous residues have been thoroughly cleaned or rendered non-hazardous.
In New Zealand, the packaging (that may or may not hold any residual substance) that is lawfully disposed of by householders or other consumers through a public or commercial waste collection service is a means of compliance with regulations.

Section 14: Transport information

Transport Information
This material is classified as Dangerous Goods Class 8 Corrosive Substances
Must not be loaded in the same freight container or on the same vehicle with:
Class 1: Explosives
Division 5.1: Oxidising substances
Division 5.2: Organic peroxides
Class 7: Radioactive materials unless specifically exempted
Food items
Note 1: Cyanides (Division 6.1) must not be loaded in the same freight container or on the same vehicle with acids (Class 8).
Note 2: Strong acids must not be loaded in the same freight container or on the same vehicle with strong alkalis. Packing Group I and II acids and alkalis should be considered as strong.
Must not be loaded in the same freight container; and on the same vehicle must be separated horizontally by at least 3 metres unless all but one are packed in separate freight containers with:
Division 4.3: Dangerous when wet substances
Goods of packing group II or III may be loaded in the same freight container or on the same vehicle if transported in segregation devices with:
Division 4.3: Dangerous when wet substances
Division 5.1: Oxidising substances
Division 5.2: Organic peroxides
Food items

UN Number
1805

Proper Shipping Name
PHOSPHORIC ACID SOLUTION

Hazard Class
8

Packing Group
III

Hazchem Code
2R

UN Number (Air Transport, ICAO)
1805

IATA/ICAO Proper Shipping Name
Phosphoric acid, solution

IATA/ICAO Hazard Class
8

IATA/ICAO Packing Group
III

IATA/ICAO Symbol
Corrosive

IMDG UN Number
1805

IMDG Proper Shipping Name
PHOSPHORIC ACID SOLUTION

IMDG Hazard Class
8

IMDG Packing Group
III

IMDG Marine pollutant
No

IMDG EMS
F-A,S-B

Transport in Bulk
Not available

Special Precautions for User
Not available

Section 15: Regulatory information

Regulatory Information
Classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, New Zealand. Group Standard: Additives, Process Chemicals and Raw Materials (Toxic [6.1], Corrosive) Group Standard 2017.

HSNO Approval Number
HSR002510

New Zealand (NZIoC)
All components of this product are listed on the Inventory or exempted.

Tolerable exposure limit (TEL)
Not available

Environmental exposure limit (EEL)
Not available

Certified Handler
Not available

Tracking
Not required

Controlled Substance Licence Requirements
Not available

Montreal Protocol
Not Listed

Stockholm Convention
Not Listed

Rotterdam Convention
Not Listed

Agricultural Compounds, including Veterinary Medicines (ACVM)
Not available

Section 16: Other information

Date of preparation or last revision of SDS
SDS Reviewed: July 2021, Supersedes: July 2016

Literature References
Hazardous Substances and New Organisms Act 1996.
Health and Safety at Work (Hazardous Substances) Regulations 2017.
Workplace Exposure Standards and Biological Exposure Indices.
Agricultural Compounds and Veterinary Medicines Act 1997.
Montreal Protocol on Substances that Deplete the Ozone Layer.
Stockholm Convention on Persistent Organic Pollutants (POPs).
Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade.
Transport of Dangerous goods on land NZS 5433.
Preparation of Safety Data Sheets - Approved Code of Practice Under the HSNO Act 1996 (HSNO CoP 8-1 09-06).
Assigning a hazardous substance to a group standard.
Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).

Contact Person/Point
IMPORTANT ADVICE: An SDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. The information contained in this SDS is believed to be correct but is not guaranteed. Prior to using the product(s) referred to in this SDS, each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace, including its use in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact the supplier listed in section 1 of the SDS. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request. DKSH Agrisolutions Pty Ltd does not accept any other liability either directly or indirectly for any losses suffered in connection with the use and application of the product whether or not in accordance with any advice, specification, recommendation or information given by it. DKSH Agrisolutions Pty Ltd SDS WARNING: DKSH Agrisolutions Pty Ltd is aware that third parties are distributing documents purporting to be SDSs (or the like) in relation to DKSH Agrisolutions Pty Ltd products without any authorisation from DKSH Agrisolutions Pty Ltd ("Unauthorised SDS"). DKSH Agrisolutions Pty Ltd accepts no responsibility for the distribution of an Unauthorised SDS by a third party or for any information contained therein. All DKSH Agrisolutions Pty Ltd products must be used in accordance with the corresponding original and current SDS authorised by DKSH Agrisolutions Pty Ltd for use with that DKSH Agrisolutions Pty Ltd product ("Authorised SDS"). In the event that an SDS in relation to an DKSH Agrisolutions Pty Ltd product has expired and is not marked as obsolete, please contact DKSH Agrisolutions Pty Ltd immediately to obtain a current SDS. Further, if an DKSH Agrisolutions Pty Ltd product is used without the Authorised SDS and/or with an Unauthorised SDS, or an expired SDS which is not marked obsolete, DKSH Agrisolutions Pty Ltd hereby excludes absolutely and to the maximum extent permitted by law all liability whatsoever and howsoever arising under contract, tort (including negligence) or otherwise for all loss and/or damage including, but not limited to, for personal injury, sickness or death, damage to real property and/or chattels and all indirect and consequential loss (including loss of profits).

END OF SDS