

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : BIODEGRADABLE DEGREASER

Product code :

Manufacturer or supplier's details

Company : AUTOSERV NEW ZEALAND LTD.

Address : 2 / 38 TRUGOOD DRIVE, EAST TAMAKI

AUCKLAND, NEW ZEALAND

Telephone : +64 9 272 1940

Emergency telephone number : 0800 764 766

E-mail address : admin@autoserv.co.nz

Telefax :

Recommended use of the chemical and restrictions on use

Recommended use : Cleaning agent

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Skin corrosion/irritation Category 2

Serious eye damage/eye irritation : Category 1

GHS label elements

Hazard pictograms

Signal word

Hazard statements

Danger

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statements

Prevention:

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Immediately call a POISON

CENTER or doctor/ physician.

P332 + P313 If skin irritation occurs: Get medical advice/ attention. P362 Take off contaminated clothing and wash before reuse.

Other hazards which do not result in classification

None known.

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SECTION 3. COMPOSITION INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Nonylphenol, ethoxylated	9016-45-9	< 10
Potassium Pyrophosphate	7320-34-5	< 10
2-Butoxyethanol	111-76-2	< 10
Potassium hydroxide	1310-58-3	< 10

SECTION 4. FIRST AID MEASURES

General advice In the case of accident or if you feel unwell, seek medical advice

immediately.

When symptoms persist or in all cases of doubt seek medical advice.

If inhaled, remove to fresh air. If inhaled

Get medical attention if symptoms occur.

In case of contact, immediately flush skin with plenty of water In case of skin contact

for at least 15 minutes while removing contaminated clothing and

shoes.

Get medical attention. Wash clothing before reuse.

Thoroughly clean shoes before reuse.

In case of eye contact In case of contact, immediately flush eyes with plenty of water

for at least 15 minutes.

If easy to do, remove contact lens, if worn.

Get medical attention immediately.

If swallowed If swallowed, DO NOT induce vomiting.

Get medical attention if symptoms occur.

Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and

delayed

Causes skin irritation.

Causes serious eye damage.

Protection of first-aiders : First Aid responders should pay attention to self-protection,

and use the recommended personal protective equipment

when the potential for exposure exists.

Notes to physician Treat symptomatically and supportively.

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SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray

Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing media : None known

Specific hazards during fire

fighting

Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Oxides of phosphorus

Carbon oxides

Specific extinguishing methods : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment. Use water spray to cool unopened containers.

Remove undamaged containers from fire area if it is safe to do so.

Evacuate area.

Special protective equipment for

firefighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, : Use personal protective equipment.

protective equipment and emergency procedures

Follow safe handling advice and personal protective

equipment recommendations.

Environmental precautions : Discharge into the environment must be avoided.

Prevent further leakage or spillage if safe to do so.

Prevent spreading over a wide area (e.g. by containment or oil barriers).

Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages cannot be

contained.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material.

For large spills, provide dyking or other appropriate

containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent.

Local or national regulations may apply to releases and

disposal of this material, as well as those materials and

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7. HANDLING AND STORAGE

Technical measures : See Engineering measures under EXPOSURE

CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : Use only with adequate ventilation.

Advice on safe handling : Do not get on skin or clothing.

Avoid inhalation of vapour or mist.

Do not swallow. Do not get in eyes.

Handle in accordance with good industrial hygiene and safety practice.

Keep container tightly closed.

Take care to prevent spills, waste and minimize release to the

environment.

Hygiene measures : Ensure that eye flushing systems and safety showers are

located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

Conditions for safe storage : Keep in properly labelled containers.

Keep tightly closed.

Store in accordance with the particular national regulations.

Materials to avoid : Do not store with the following product types:

Strong oxidizing agents

Recommended storage

temperature

Storage – 12 months

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis		
		(Form of	ters / Permissible			
		exposure)	concentration			
2-Butoxyethanol	111-76-2	WES-TWA	25 ppm	NZ OEL		
			121 mg/m3			
	Further information: Skin absorption					
		TWA	20 ppm	ACGIH		
Potassium hydroxide	1310-58-3	WES-Ceiling	2 mg/m3	NZ OEL		
		С	2 mg/m3	ACGIH		

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentration	Basis
2-Butoxyethanol	111-76-2	Butoxyace- tic acid	Urine	End of shift (As	200 mg/g Creatinine	ACGIH BEI
		(BAA)		soon as possible after exposure ceases)		

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Engineering measures : Ensure adequate ventilation, especially in confined areas.

Minimize workplace exposure concentrations.

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust

ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Combined particulates and organic vapour type

Hand protection

Material : Nitrile rubber
Break through time : > 60 min
Glove thickness : 0.5 mm
Directive : DIN EN 374
Protective index : Class 3

Remarks : Choose gloves to protect hands against chemicals depending on the

concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of

workday.

Eye protection : Wear the following personal protective equipment:

Chemical resistant goggles must be worn. If splashes are

likely to occur, wear: Face-shield

Skin and body protection : Select appropriate protective clothing based on chemical

resistance data and an assessment of the local exposure potential. Skin contact must be avoided by using impervious protective clothing

(gloves, aprons, boots, etc).

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Initial boiling point and boiling :

range

No data available Flash point

Evaporation rate No data available

Flammability (solid, gas) Not applicable

Flammability (liquids) No data available

Upper explosion limit No data available

: No data available Lower explosion limit

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : 1.01

Solubility(ies)

Water solubility completely soluble

Partition coefficient:

noctanol/water

Not applicable

No data available Auto-ignition temperature

Decomposition temperature No data available

Viscosity

Viscosity, kinematic No data available

Explosive properties Not explosive

Oxidizing properties The substance or mixture is not classified as oxidizing.

Particle size Not applicable

SECTION 10. STABILITY AND REACTIVITY

Possibility of hazardous

: None known.

Conditions to avoid None known.

Acids Incompatible materials

Hazardous decomposition

products

reactions

No hazardous decomposition products are known.

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SECTION 11. TOXICOLOGICAL INFORMATION

Exposure routes : Inhalation

Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg

Method: Calculation method

Components:

Nonylphenol, ethoxylated:

Acute oral toxicity : LD50 (Rat): 500 - 2,000 mg/kg

Potassium Pyrophosphate:

Acute oral toxicity : LD50 (Rat): 2,440 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 1.1 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

2-Butoxyethanol:

Acute oral toxicity : LD50 (Rat): 1,746 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : Acute toxicity estimate: 11 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Expert judgement

Remarks: Based on harmonised classification in EU regulation

1272/2008, Annex VI

Acute dermal toxicity : Acute toxicity estimate: 1,100 mg/kg

Method: Expert judgement

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Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Nonylphenol, ethoxylated:

Test Type: Maximisation Test Exposure routes: Skin contact

Species: Guinea pig Result: negative

Remarks: Based on data from similar materials

Potassium Pyrophosphate:

Test Type: Local lymph node assay (LLNA)

Exposure routes: Skin contact

Species: Mouse

Method: OECD Test Guideline 429

Result: negative

Remarks: Based on data from

similar materials

2-Butoxyethanol:

Test Type: Maximisation Test Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: negative

Potassium hydroxide:

Exposure routes: Skin contact

Species: Guinea pig Result: negative

Chronic toxicity

Germ cell mutagenicity

Not classified based on available information.

Components:

Nonylphenol, ethoxylated:

Genotoxicity in vitro Test Type: Bacterial reverse mutation assay(AMES)

Result: negative

Remarks: Based on data from similar materials

Potassium Pyrophosphate:

Genotoxicity in vitro Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Remarks: Based on data from similar materials

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2-Butoxyethanol:

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test

(in vivo cytogenetic assay)

Species: Mouse

Method: OECD Test Guideline 474

Result: negative

Potassium hydroxide: : Test Type: Bacterial reverse mutation assay (AMES)

Genotoxicity in vitro

Result: negative

Carcinogenicity

Not classified based on available information.

Components:

2-Butoxyethanol:

Species: Mouse

Application Route: inhalation (vapour) Exposure time: 106 weeks

Method: OECD Test Guideline 451

Result: negative

Reproductive toxicity

Not classified based on available information.

Components:

Potassium Pyrophosphate:

Effects on foetal : Test Type: Embryo-foetal development

development Species: Rat

Application Route: Ingestion

Result: negative

Remarks: Based on data from similar materials

2-Butoxyethanol:

Effects on fertility : Test Type: Two-generation reproduction toxicity study

Species: Mouse

Application Route: Ingestion

Result: negative

Effects on foetal : Test Type: Embryo-foetal development

development Species: Rabbit

Application Route: inhalation (vapour)
Method: OECD Test Guideline 414

Result: negative

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Toxicity to algae

Nonylphenol, ethoxylated:

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia sp. (water flea)): 1.82 mg/l

Exposure time: 48 h

EC50 (Pseudokirchneriella subcapitata (green algae)):

20 mg/l Exposure time: 48 h

Potassium Pyrophosphate:

Toxicity to fish

LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Remarks: Based on data from similar materials

Toxicity to daphnia and other

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

: EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Toxicity to algae

Exposure time: 72 h

Method: Directive 67/548/EEC, Annex V, C.3. Remarks: Based on data from similar materials

NOEC (Desmodesmus subspicatus (green algae)): > 100 mg/l

Exposure time: 72 h

Method: Directive 67/548/EEC, Annex V, C.3. Remarks: Based on data from similar materials

2-Butoxyethanol:

LC50 (Oncorhynchus mykiss (rainbow trout)): 1,464 mg/l Toxicity to fish

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 1,800 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae EC50 (Pseudokirchneriella subcapitata (green algae)): 1,840 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 286 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to fish NOEC (Danio rerio (zebra fish)): > 100 mg/l

Exposure time: 21 d

(Chronictoxicity) Method: OECD Test Guideline 204

Toxicity to daphnia and other

aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 100 mg/l

Exposure time: 21 d

Method: OECD Test Guideline 211

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Persistence and degradability Components:

Nonylphenol, ethoxylated:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 97 % Exposure time: 30 d

Potassium Pyrophosphate:

Stability in water : Degradation half life (DT50): > 1 yr

2-Butoxyethanol:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 90.4 % Exposure time: 28 d

Method: OECD Test Guideline 301B

Bioaccumulative potential

Components:

Nonylphenol, ethoxylated:

Partition coefficient: noctanol/water

log Pow: 4.48

2-Butoxyethanol:

Partition coefficient: noctanol/water

log Pow: 0.81

Mobility in soil

No data available

Other adverse effects Components:

Nonylphenol, ethoxylated:

Results of PBT and vPvB assessment

This substance is considered to be persistent, bioaccumulating and toxic (PBT). This substance is considered to be very persistent and very bioaccumulating (vPvB

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods Waste

from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

If not otherwise specified: Dispose of as unused product.

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SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

National Regulations

NZS 5433

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

HSNO Approval Number

HSR002530

HSNO Controls

Approved handler certificate not required.

HSNO tracking not required.

Refer to EPA user guide to the HSNO control regulations for further information.

The components of this product are reported in the following inventories:

NZIoC : All ingredients listed or exempt.

SECTION 16. OTHER INFORMATION

Further information

Sources of key data used to compile the Safety Data Sheet

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)
NZ OEL : New Zealand. Workplace Exposure Standards for

Atmospheric Contaminants

ACGIH / TWA : 8-hour, time-weighted average

ACGIH / C : Ceiling limit

NZ OEL / WES-TWA : Workplace Exposure Standard - Time Weighted average

NZ OEL / WES-Ceiling : Workplace Exposure Standard - Ceiling

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% re- sponse; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC

- Interna- tional Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dan- gerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemi- cals Inventory: LC50 - Lethal Concentration to 50 % of a test population: LD50 -Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the - Pre- vention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch -Chilean Norm; NO(A)EC -No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Tox- icology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Eco-nomic Cooperation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH -Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self- Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG -Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN -United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS -Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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