



Safety Data Sheet ND-150

Supersedes Date DEC 2016

Issuing Date JUNE 2020

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name ND-150

Recommended use Cleaning agent

Manufacturer, importer, supplier

NCH AUSTRALIA PTY LTD, DIV. OF NCH CORPORATION
N2, 391, PARK ROAD, REGENTS PARK, NSW 2143

Telephone inquiry

+61-2-96690260

Emergency Telephone Number

+61-2-96690237 / 0401718972

Fax number

+61-2-96931562

Product Code 0003

Chemical nature Aqueous surfactant solution

Distributor

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2. HAZARD IDENTIFICATION**Colour** Yellow - Green**Physical State** Liquid**Odour** Butyl odour**Mixture or Pure Substance:** Mixture**GHS****Classification**Physical Hazards

None

Health Hazard

Acute Oral Toxicity

Category 4

Acute Dermal Toxicity

Category 4

Acute Inhalation Toxicity - Gas

Category 4

Skin Corrosion/Irritation

Category 2

Serious Eye Damage/Eye Irritation

Category 2

Other Hazards**Labelling**Signal Word**Warning**HazardStatements

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

PrecautionaryStatements

P261 - Avoid breathing dust/fume gas/mist/vapours/spray

P264 - Wash face, hands and any exposed skin thoroughly after handling.

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

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P312 - Call a physician if unwell.

P330 - Rinse mouth

P362 - Take off contaminated clothing and wash before reuse

P301+ P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if unwell

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

P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms call a physician.

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 + P313 - If eye irritation persists: Get medical advice/attention.

P501 - Dispose of contents/container in accordance with applicable local regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	ENCS	Weight %
2-Butoxyethanol	111-76-2	Present	0-10
INGREDIENTS DETERMINED NOT TO BE HAZARDOUS			UP TO 100 %

4. FIRST AID MEASURES

General advice	Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists.
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately.
Skin Contact	Remove immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately.
Inhalation	Move to fresh air. In case of shortness of breath, give oxygen. If breathing has stopped, apply artificial respiration. Get medical attention immediately.
Ingestion	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately.
Notes to physician	Never give anything by mouth to an unconscious person. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point	The product is not flammable	Method	Not applicable
Auto ignition Temperature	No information available.		
Flammability Limits in Air % Hydrogen, by reaction with metals.	Lower 4	Upper 75	
Suitable Extinguishing Media	Carbon dioxide (CO ₂), Foam, Dry Chemical or Water fog. Foam. Dry chemical. Alcohol-resistant foam. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
Specific hazards arising from the chemical	Material can create slippery conditions.		
Protective Equipment and Precautions for Firefighters	Wear self-contained breathing apparatus pressure-demand, Safe Work, Australia (approved or equivalent) and full protective gear.		

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.
Environmental Precautions	Avoid release of neat product into surface water and sanitary sewage system.
Methods for Containment	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Methods for Cleaning Up	Clean preferably with a detergent, do not use solvents. Pick up and transfer to properly labelled containers .
Neutralizing Agent	Acetic acid, diluted.

7. HANDLING AND STORAGE

Handling	Avoid contact with skin, eyes and clothing			
	Avoid breathing vapours or mists			
Storage	Store in original container			
	Keep containers tightly closed in a dry, cool and well-ventilated place			
	Metal containers must be lined			
	Freezing will affect the physical condition but will not damage the material. Thaw and mix before using			
Storage Temperature	Minimum	2 °C	Maximum	49 °C
Storage Conditions	Indoor	x	Outdoor	Heated Refrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ES-TWA	ISHL	ACGIH TLV
2-Butoxyethanol	skin notation STEL: 50 ppm STEL: 242 mg/m ³ TWA: 20 ppm TWA: 96.9 mg/m ³	ACL: 25 ppm	TWA: 20 ppm
INGREDIENTS DETERMINED NOT TO BE HAZARDOUS		no data available	No data available

Engineering Measures

Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Respiratory Protection

In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Tightly fitting safety goggles.

Eye/Face Protection

Hand Protection

Skin Protection

Protective gloves

Wear suitable protective clothing, Impervious gloves.

General Hygiene Considerations

Wear protective gloves/clothing. Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Transparent
Colour	Yellow - Green
Physical State	Liquid
Odour	Butyl odour
Odour Threshold	No data available
pH	11.0-11.5
Melting Point/Range	No data available
Freezing Point	No information available
Boiling Point/Range	>100 degrees C 99 °C
Flash Point	The product is not flammable
Method	Not applicable
Evaporation Rate	>0.1 (Butyl acetate=1)
Vapour Pressure	17 mm Hg @ 21°C
Solubility	Completely soluble
Vapour Density	0.6 (Air = 1.0)
Specific Gravity	1.05
Auto ignition Temperature	No information available.
Viscosity	Non viscous
Molecular Weight	No data available
Percent Volatile (Volume)	95
VOC Content (%)	3.8
VOC Content (g/L)	40

10. STABILITY AND REACTIVITY

Chemical Stability	Stable. Hazardous polymerization does not occur.
Conditions to Avoid	None known
Incompatible Products	Strong oxidizing agents, Strong acids, Strong bases, Ammonium salts, Reducing agents, Aldehydes.
Hazardous Decomposition Products	Carbon oxides, Aldehydes, Sulphur oxides, Hydrogen, by reaction with metals.
Possibility of Hazardous Reactions	None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information

Principle Route of Exposure Skin contact, Eye contact, Inhalation.

The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):

Oral LD50 12,336.00 mg/kg

Dermal LD50 28,871.00 mg/kg

Inhalation LC50

Gas Not applicable

Mist 39.40 mg/L

Vapour not applicable

Primary Routes of Entry

Skin Absorption, Inhalation.

Main Symptoms**Acute Effects**

Eyes Severe irritation.

Skin Severe irritation. May be absorbed through the skin in harmful amounts.

Inhalation Causes respiratory tract irritation. May cause central nervous system depression. Inhalation may cause central nervous system effects. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Blood disorder may occur after prolonged inhalation. Inhalation of vapours in high concentration can cause narcotic effects and metabolic acidosis.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Acidosis.

Chronic Effects

Liver and kidney injuries may occur, Contains a known or suspected carcinogen, May cause damage to the kidneys/liver/eyes/brain/respiratory system/central nervous system if inhaled.

Target Organ Effects

Central Nervous System, Respiratory system, Lymphatic System, Blood, Liver, Kidney, Spleen, Skin, Eyes.

Aggravated Medical Conditions

Respiratory disorders, Kidney disorders, Liver disorders, Neurological disorders, Skin disorders, Blood disorders.

Component Information**Acute Toxicity**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
2-Butoxyethanol	= 470 mg/kg (Rat)	= 99 mg/kg (Rabbit)	= 450 ppm (Rat) 4 h	no data available	no data available
INGREDIENTS DETERMINED NOT TO BE HAZARDOUS	no data available	no data available	no data available	no data available	no data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
2-Butoxyethanol	no data available	no data available	no data available	no data available	liver, kidneys, lymphatic system, skin, blood, eyes, CNS, respiratory system
INGREDIENTS DETERMINED NOT TO BE HAZARDOUS	no data available	no data available	no data available	no data available	no data available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	ES	ACGIH	IARC	NTP	Other
2-Butoxyethanol	not applicable	not applicable	not applicable	not applicable	not applicable
INGREDIENTS DETERMINED NOT TO BE HAZARDOUS	not applicable	not applicable	not applicable	not applicable	not applicable

12. ECOLOGICAL INFORMATION

Product Information

No data available

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow

2-Butoxyethanol	no data available	LC50 = 1490 mg/L Lepomis macrochirus 96 h LC50 = 2950 mg/L Lepomis macrochirus 96 h	no data available	EC50> 1000 mg/L 48 h	0.81
INGREDIENTS DETERMINED NOT TO BE HAZARDOUS	no data available	no data available	no data available	no data available	N/A

Eco toxicity effects	No information available
Persistence & Degradability	No specific information.
Bioaccumulation	No information available
Mobility	No information available

13. DISPOSAL CONSIDERATIONS

Product Disposal	Dispose of in accordance with local regulations.
Container Disposal	Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

ADG 7	Not Regulated
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15. REGULATORY INFORMATION

Australia	
POISON SCHEDULE (SUSMP)	None

16. OTHER INFORMATION

Prepared By	Arvind Rane
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Reason for Revision	GHS-SDS FORMAT
List of References.	No information available.

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