

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1. Product identifier

Product name : **AF33 Black 3345GL**
 Product form : liquid
 Other means of identification : 3300 series; AF33 Antifouling Paint

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Antifouling

1.3. Details of the supplier of the safety data sheet

Akzo Nobel Coatings Ltd.
 686 Rosebank Road, Avondale, Auckland 7 New Zealand
 (09) 828 3009

1.4. Emergency telephone number

For Hazardous Materials [or Dangerous Goods] Incident spill, leaks, fire, Exposure, or Accident
Call CHEMTREC 24 hours 7 days per week

Emergency number : CHEMTREC Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

Emergency number : CHEMTREC Within USA and Canada: 1-800-424-9300 CCN155

Emergency number : New Zealand Poisons Information Centre 0800 764 766 (24 hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

This substance is classified as hazardous according to criteria in the Hazardous Substances (Classifications) Notice.

EPA Approval No: HSR100869 - Sea Hawk AF33 Antifouling Paint

Classification (GHS)

Flammable Liquid 3	H226
Acute Oral Toxicity 4	H302
Eye irritation 2	H319
Skin Sensitisation 1	H317
Aspiration Toxicity 1	H304
Reproductive Toxicity 2	H361
Effect on or via lactation	H362
Carcinogenicity 2	H351
Specific Target Organ Toxicity (RE) 2	H373
Aquatic Acute Toxicity 1	H400
Aquatic Chronic Toxicity 1	H410

2.2. Label elements

GHS labeling

Hazard pictograms (GHS) :



Signal word (GHS) : **Danger**

Hazard statements (GHS) :

- H226 - Flammable liquid and vapor
- H302 - Harmful if swallowed
- H319 - Causes serious eye irritation
- H317 - May cause an allergic skin reaction
- H304 - May be fatal if swallowed and enters airways
- H361 - Suspected of damaging fertility or the unborn child
- H362 - May cause harm to breast-fed children

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H351 - Suspected of causing cancer
H373 - May cause damage to organs through prolonged or repeated exposure
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (GHS) :

P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P233 - Keep container tightly closed
P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof electrical/ventilating/lighting equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P260 Do not breathe dust or mist
P261 - Avoid breathing fumes or mist.
P263- Avoid contact during pregnancy and while nursing.
P264 - Wash face, hands and forearms thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P272 - Contaminated work clothing must not be allowed out of the workplace
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P301+P310 - IF SWALLOWED: Immediately call a doctor.
P301+P312 - If swallowed: Call POISON CENTER or a doctor if you feel unwell
P302+P352 - If on skin: Wash with plenty of water.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with 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
P314 – Get medical advice/attention if you feel unwell.
P321 - Specific treatment (see first aid instructions on this label)
P330 - Rinse mouth
P331 - Do NOT induce vomiting
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P337+P313 – If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse
P370+P378 - In case of fire: Use water to extinguish
P391 - Collect spillage
P403+P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up
P501 - Dispose of contents/container to licenced waste handling facility.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Name	Product identifier	% w/v
Cupric oxide	(CAS No) 1317-38-0	1-5
Solvent naphtha(petroleum), light aromatic	(CAS No) 64742-95-6	10-30
Ethylbenzene	(CAS No) 100-41-4	0.01 - 1
Zinc oxide	(CAS No) 1314-13-2	5-10
Cuprous oxide	(CAS No) 1317-39-1	30-45
Cumene	(CAS No) 98-82-8	0.1-1
Pseudocumene	(CAS No) 95-63-6	5-10
C18-28 Long Chain Chlorinated Paraffins	(CAS No) 63449-39-8	0.1-1
Reaction product of epichlorohydrin and bisphenol A	(CAS No) 25085-99-8	0.1-1
Crystalline silica (quartz)	(CAS No) 14808-60-7	0.1-1

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SECTION 4: First aid measures

Speed in treatment is essential. If poisoning occurs, contact a Poisons Information Centre. Phone Australia 131126; New Zealand 0800 764 766 or a doctor. Have this SDS or the label with you.

4.1. First aid measures:

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
Inhalation:	: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.
Skin contact:	: IF ON SKIN: Immediately rinse with plenty of water (for at least 15 minutes). Get immediate medical advice/attention.
Eye contact:	: IF IN EYES: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Get medical advice/attention.
Ingestion:	: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
First aid facilities:	: Eyewash and normal washroom facilities.
Medical attention and special treatment:	Treat symptomatically

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation	: May cause nose and throat irritation.
Symptoms/injuries after skin contact	: May cause skin irritation. May cause allergic skin reaction.
Symptoms/injuries after eye contact	: May cause eye irritation. Avoid contact with eyes.
Symptoms/injuries after ingestion	: Harmful if swallowed. May cause abdominal pain, nausea, vomiting or drowsiness.
Chronic symptoms	: Possible cancer hazard. Contains ingredients which may cause cancer based on animal data.

4.3. Indication of any immediate medical attention and special treatment needed

Obtain medical assistance.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Carbon dioxide. Dry powder. Alcohol-resistant foam. Water spray.
Hazchem code	: •3Y

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Flammable liquid and vapor. May produce carbon oxides under fire conditions.
Explosion hazard	: Product is not explosive.
Reactivity	: No dangerous reactions known under normal conditions of use.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Wear self-contained breathing apparatus and protective suit (see item 8).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Evacuate area. Keep upwind. Ventilate area. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).
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6.1.1. For non-emergency personnel

Protective equipment	: Wear protective equipment as described in Section 8.
Emergency procedures	: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment	: Wear suitable protective clothing, gloves and eye or face protection. Wear approved supplied-air respirator, in case of emergency.
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6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
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Methods for cleaning up : Exclude sources of ignition and ventilate the area. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Waste from this product may be hazardous.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. 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. Do not breathe mists. Keep away from sources of ignition - No smoking. Use appropriate personal protection equipment (PPE).

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat sources. Keep container closed when not in use.

Storage temperature : < 38 °C (100°F)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No value assigned for this specific material by Worksafe New Zealand NZ, however the following are the tolerable exposure limit (TEL) or exposure standards for the individual hazardous components as available and published by NZ Workplace Exposure Standard (WES) and/or as set by overseas occupational exposure limits:

Ethylbenzene (100-41-4)	
Worksafe NZ (TWA) (ppm)	20 ppm
ACGIH (TWA) (ppm)	20 ppm
OSHA PEL (TWA) (mg/m ³)	435 mg/m ³
OSHA PEL (TWA) (ppm)	100 ppm
OSHA PEL (STEL) (mg/m ³)	545 mg/m ³
OSHA PEL (STEL) (ppm)	125 ppm

Zinc oxide (1314-13-2)	
Worksafe NZ (TWA) (mg/m ³)	2.0 (r)
ACGIH (TWA) (mg/m ³)	2 mg/m ³
ACGIH (STEL) (mg/m ³)	10 mg/m ³
Cuprous oxide (1317-38-0)	
Worksafe NZ (TWA)	OELs not established
ACGIH (TWA) (ppm)	No Established Limit
ACGIH (STEL) (ppm)	No Established Limit

Cumene (98-82-8)	
Worksafe NZ (TWA) (mg/m ³)	25 ppm
ACGIH (TWA) (ppm)	50 ppm
OSHA PEL (TWA) (mg/m ³)	245 mg/m ³
OSHA PEL (TWA) (ppm)	50 ppm

Silica: Crystalline, quartz (14808-60-7)	
Worksafe NZ (TWA) (mg/m ³)	0.05 (r) mg/m ³
ACGIH (TWA) (mg/m ³)	0.025 mg/m ³ (respirable fraction)
OSHA (PEL) (TWA) (mg/m ³)	(10)/(%SiO ₂ + 2) total dust; (10)/(%SiO ₂ + 2) respirable fraction
OSHA PEL (TWA) (ppm)	(250)/(%SiO ₂ + 5) respirable fraction

Chlorinated paraffin waxes and hydrocarbon waxes (63449-39-8)	
Worksafe NZ (TWA)	OELs not established
Remark (ACGIH)	OELs not established
Remark (OSHA)	OELs not established

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8.2. Exposure controls

Appropriate engineering controls

: Ensure adequate ventilation, especially in confined areas. Handle with good industrial hygiene and safety.

Personal protective equipment

: Face shield. Respiratory protection of the dependent type. Gloves. Protective goggles. Protective clothing.



Hand protection

: Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Natural rubber ("latex"), Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl.

Eye protection

: Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles.

Skin and body protection

: Wear long sleeves. Handle with gloves

Respiratory protection

: An approved organic vapor respirator/supplied air or self-contained breathing apparatus must be used when vapor concentration exceeds applicable exposure limits.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid
Colour	: Black
Odour	: Aromatic odour.
Odour Threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Initial boiling point and boiling range	: Not Measured
Flash point	: 38°C (101°F)-closed cup
Flammability (solid, gas)	: Not applicable
Upper/lower explosive limits	: No data available
Vapor pressure	: Not Measured
Relative vapor density at 20 °C	: Heavier than air
Relative density	: 1.86 g/ml at 25°C (77°F)
Solubility	: Water: None
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Particle characteristics	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Upon combustion: CO and CO₂ are formed. Reacts violently with strong oxidizers: increased risk of fire/explosion. Reacts with some acids.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

Vapours may form explosive mixture with air.

10.4. Conditions to avoid

Sparks. Heat. Open flame. Extremes of temperature and direct sunlight.

10.5. Incompatible materials

Avoid contact with : Strong oxidizing agents.

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10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

No toxicological data is available for the formulation. The acute toxicity of the ingredients is presented below:

Ethylbenzene (100-41-4)	
LD50 oral rat	3500 mg/kg
LD50 dermal rabbit	15354 mg/kg
LC50 inhalation rat (mg/l)	17.2 mg/l/4h
Cuprous oxide (1317-39-1)	
LD50 oral rat	470 mg/kg Category 4
LD50 skin rabbit	2000.00 mg/kg Category 4
LD50 inhalation dust/mist rat	50.00 mg/l/4h Category NA
Zinc oxide (1314-13-2)	
LD50 oral rat	5000 mg/kg Category 5
LD50 inhalation dust/mist mouse	2.50 mg/l/4h Category 4
Cumene (98-82-8)	
LD50 oral rat	1400 mg/kg
LD50 dermal rabbit	12300 µg/kg
LC50 inhalation rat (ppm)	> 3577 ppm 6 h
Silica: Crystalline, quartz (14808-60-7)	
LD50 oral rat	500 mg/kg

Acute toxicology - oral	Harmful if swallowed.
Acute toxicology - dermal	Not classified.
Acute toxicology - inhalation	Not classified.
Skin corrosion/irritation	Not classified.
Eye damage/irritation	: Causes serious eye irritation
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer
Reproductive toxicity	: Suspected of damaging fertility or the unborn child. May cause harm to breast-fed children.
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: May cause damage to organs through prolonged or repeated exposure
Aspiration hazard	: May be fatal if swallowed and enters airways
Chronic health effects	: Suspected of causing cancer.

SECTION 12: Ecological information

12.1. Ecotoxicity

No ecotoxicity data is available for the formulation. The ecotoxicity of the ingredients is presented below:

Cuprous oxide (1317-39-1)	
LC50 fishes l	0.075 mg/l (96 h; danio rerio)
EC50 daphnia l	0.042 mg/l (48 h; Daphnia similis)
Threshold limit algae l	0.03 mg/l (96 h; Pseudokirchneriella subcapitata)
Zinc oxide (1314-13-2)	
LC50 fishes l	1.10 mg/l (96 h; Oncorhynchus mykiss)
EC50 daphnia l	0.098 mg/l (48 h; Daphnia magna)
Threshold limit algae l	0.042 mg/l (72 h; Pseudokirchneriella subcapitata)

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

Copper oxide and zinc oxide will not accumulate in soil or water.

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12.4. Mobility in soil

No data available

12.5. Other adverse effects

PBT/vPvB assessment not available as chemical safety assessment not required/ not conducted
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

12.6. Limiting exposure to ecotoxic substance through the setting of EEL values

No EEL has been set for this substance.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Treatment methods : The generation of waste should be avoided or minimized wherever possible. Residues of the product is listed as hazardous waste. Dispose of according to all state and local applicable regulations. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Spillage, remains, waste generated from removal of the product from the hull of a boat, discarded clothes and similar should be discarded in a fireproof container before disposal.

Disposal recommendations : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

SECTION 14: Transport information

14.1. Road and Rail Transport - New Zealand Transport Legislation (NZS5433)

UN number : 1263
UN proper shipping name : PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler, and liquid lacquer base)
Hazard Classes : Class 3 - Flammable liquid
Packing group : III
Hazchem Code : •3Y

14.2. Marine Transport - International Maritime Dangerous Goods Code (IMDG Code) for transport by sea

UN Number : 1263
UN proper shipping name : PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler, and liquid lacquer base)
Hazard Class : 3- Flammable liquid
Packaging Group : III
EmS-No.(1) : F-E
EmS-No.(2) : S-E
Marine Pollutant : Yes

14.3. Air Transport (IATA Code) - the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air

UN Number : 1263
UN proper shipping name : PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler, and liquid lacquer base)
Hazard Class : 3- Flammable liquid
Packaging Group : III

SECTION 15: Regulatory information

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

HSNO Approval Number: HSR100869 - Sea Hawk AF33 Antifouling Paint
HSNO Controls See <http://www.epa.govt.nz> for controls
NZIoC: All components of this product are listed on or exempt from the New Zealand Inventory of Chemicals
Approved Handler: Not triggered
Certificate Required: Not triggered
Tracking: Not triggered
ACVM: Not applicable
Montreal Protocol/ Stockholm Convention/
Rotterdam Convention: Not applicable

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SECTION 16: Other information

In any event, the review and, if necessary, the re-issue of an SDS shall be no longer than 5 years after the last date of issue.

General Information : None
Reason(s) for Issue: : First issue and general compliance with New Zealand WHS Regulations for the preparation of safety data sheets.

Key abbreviations or acronyms used:

- ACGIH: American Conference of Governmental Industrial Hygienist
- ACVM: Agricultural Compounds and Veterinary Medicines Act 1997
- AS/NZS: Standards Australia & Standards New Zealand
- CAS No: Chemical Abstracts Services Number
- CCID: Chemical Classification and Information Database
- EC50: Half maximal effective concentration
- EEL: Environmental Exposure limits
- EPA Environmental Protection Authority (New Zealand)
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- HSNO: Hazardous Substances and New Organisms
- HSWA: Health and Safety at Work Act 2015
- IARC: International Agency for Research on Cancer
- IATA: International Air Transport Association
- IMDG – The International Maritime Dangerous Goods
- LC50 – Half maximal lethal concentration
- LD50: Half maximal lethal dose
- LEL: Lower Explosive Limit
- NZ: New Zealand
- NZIoC: New Zealand Inventory of Chemicals
- NZS 5433 New Zealand Standard Transport of Dangerous Goods on Land
- OEL – Occupational Exposure Limit
- OSHA: Occupational Safety and Health Administration
- SDS – Safety Data Sheet
- STEL: Short Term Exposure Limit
- TEL: Tolerable Exposure limits
- TLV: Threshold Limit Value
- TWA: Time Weighted Average
- PEL: Permissible exposure limit
- UEL: Upper Explosive Limit
- WES: Workplace Exposure Standard

The information on this Data Sheet represents our current data and best opinion as to the proper use in handling of this material under normal conditions. Any use of the material which is not in conformance with this Data Sheet or which involves using this material in combination with any other material or any other process is the responsibility of the user. All materials present unknown health hazards and should be used with caution. Although certain hazards are described herein, the manufacturer and its agents cannot guarantee that these are the only hazards which exist. Further, the manufacturer and its agents assume no responsibility for personal injury or property damage to vendors, users, or third-parties caused by this material. User assumes all risks associated with the use of this material. No warranty, express or implied, is made and New Nautical Coatings, Inc assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.