



Safety Data Sheet

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LOCTITE 480 CA INSTANT ADHESIVE BK known as LOCTITE
480 CA 20g EN/CH/JP

SDS No. : 153522

V001.2

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SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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| Product name: | LOCTITE 480 CA INSTANT ADHESIVE BK known as LOCTITE 480 CA 20g EN/CH/JP |
| Intended use: | Cyanoacrylate |
| Supplier: | Henkel New Zealand Ltd 2 Allens Rd East Tamaki Auckland, 2013 New Zealand Phone: +64 (9) 272-6710 |
| Emergency Telephone for Chemical Accidents: | 24 HOUR EMERGENCY CONTACT NUMBER 0800 243 622 |

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO).
Not classified as Dangerous Goods under the Land Transport Rule: Dangerous Goods 2005.

GHS Classification:

| <u>Hazard Class</u> | <u>Hazard Category</u> | <u>Target organ</u> |
|---|------------------------|------------------------------|
| Flammable liquids | Category 4 | |
| Skin irritation | Category 2 | |
| Serious eye irritation | Category 2A | |
| Target Organ Systemic Toxicant - Single exposure | Category 3 | respiratory tract irritation |
| Acute hazards to the aquatic environment | Category 2 | |
| Chronic hazards to the aquatic environment | Category 3 | |

Hazard pictogram:



Signal word:

Warning

| | |
|------------------------------------|---|
| Hazard statement(s): | H227 Combustible liquid. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H401 Toxic to aquatic life. H412 Harmful to aquatic life with long lasting effects. |
| Precautionary Statement(s): | |
| Prevention: | P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 Avoid breathing mist/vapours. P264 Wash hands thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. |
| Response: | P302+P352 IF ON SKIN: Wash with plenty of water. P304+P340+P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313 If skin irritation 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 dry sand, dry chemical or alcohol-resistant foam to extinguish. |
| Storage: | P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. |
| Disposal: | P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations. |

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

General chemical description: Mixture

Identity of ingredients:

| Chemical ingredients | CAS-No. | Proportion |
|-----------------------|-----------|------------|
| Ethyl 2-cyanoacrylate | 7085-85-0 | 70- < 90 % |
| Carbon black - Nano | 1333-86-4 | 1- < 10 % |
| phthalic anhydride | 85-44-9 | 0.1- < 1 % |
| Hydroquinone | 123-31-9 | 0.1- < 1 % |

SECTION 4 FIRST AID MEASURES

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| Ingestion: | Ensure that breathing passages are not obstructed. The product will polymerise immediately in the mouth making it almost impossible to swallow. Saliva will slowly separate the solidified product from the mouth (several hours). |
| Skin: | Do not pull bonded skin apart. It may be gently peeled apart using a blunt object such as a spoon, preferably after soaking in warm soapy water. Cyanoacrylates give off heat on solidification. In rare cases a large drop will generate enough heat to cause a burn. Burns should be treated normally after the adhesive has been removed from the skin. If lips are accidentally stuck together apply warm water to the lips and encourage maximum wetting and pressure from saliva inside the mouth. Peel or roll lips apart. Do not try to pull the lips apart with direct opposing action. |
| Eyes: | If the eye is bonded closed, release eyelashes with warm water by covering with wet pad. Cyanoacrylate will bond to eye protein and will cause periods of weeping which will help to debond the adhesive. Keep eye covered until debonding is complete, usually within 1-3 days. Do not force eye open. Medical advice should be sought in case solid particles of cyanoacrylate trapped behind the eyelid cause any abrasive damage. |
| Inhalation: | Move to fresh air, consult doctor if complaint persists. |
| First Aid facilities: | Eye wash and safety shower Normal washroom facilities |
| Medical attention and special treatment: | Treat symptomatically. Surgery is not necessary to separate accidentally bonded tissues. Experience has shown that bonded tissues are best treated by passive, non-surgical first aid. If rapid curing has caused thermal burns they should be treated symptomatically after adhesive is removed. |

SECTION 5. FIRE FIGHTING MEASURES

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| Suitable extinguishing media: | Foam, extinguishing powder, carbon dioxide. Fine water spray |
| Improper extinguishing media: | High pressure waterjet |
| Combustion behaviour: | Combustible Liquid Keep away from heat, spark, and open flames. |
| Decomposition products in case of fire: | Thermal decomposition can lead to release of irritating gases and vapors. carbon monoxide Carbon dioxide. Oxides of nitrogen. |
| Special protective equipment for fire-fighters: | Wear full protective clothing. Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA). |

SECTION 6. ACCIDENTAL RELEASE MEASURES

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| Personal precautions: | Ensure adequate ventilation. Avoid skin and eye contact. Wear protective equipment. |
| Environmental precautions: | Do not let product enter drains. |
| Clean-up methods: | Do not use cloths for mopping up. Flood with water to complete polymerization and scrape off the floor. Cured material can be disposed of as non-hazardous waste. Dispose of contaminated material as waste according to Section 13. |

SECTION 7. HANDLING AND STORAGE

- Precautions for safe handling:** Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling.
Avoid contact with fabric or paper goods. Contact with these materials may cause rapid polymerization which can generate smoke and strong irritating vapors, and cause thermal burns.
- Conditions for safe storage:** Store in a cool place in closed original container.
For optimum shelf life store in original containers under refrigerated conditions at 2 - 8°C (35.6 - 46.4 °F)

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace exposure standards:

| Ingredient [Regulated substance] | form of exposure | TWA (ppm) | TWA (mg/m3) | Ceiling | STEL (ppm) | STEL (mg/m3) |
|--|------------------|-----------|-------------|---------|------------|--------------|
| PHTHALIC ANHYDRIDE 85-44-9 | | 0.002 | 0.01 | - | - | - |
| Dihydroxybenzene(Hydroquinone) 123-31-9 | | | 1 | - | - | - |
| CARBON BLACK 1333-86-4 | | | 3 | - | - | - |
| PHTHALIC ANHYDRIDE 85-44-9 | | 0.002 | 0.01 | - | - | - |
| Dihydroxybenzene(Hydroquinone) 123-31-9 | | | 1 | - | - | - |

Biological Exposure Indices:
None

Eye protection: Wear protective glasses.

Skin protection: Protective clothing that covers arms and legs.
The use of chemical resistant gloves such as Nitrile is recommended.
Polyethylene or polypropylene gloves are recommended when using large volumes.
Do not use PVC, rubber or nylon gloves.
Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.

Respiratory protection: If inhalation risk exists, wear a respirator or air supplied mask complying with the requirements of AS/NZS 1715 and AS/NZS 1716.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Black
Liquid

Odor: Sharp, Irritating

pH: Not applicable, Product reacts with water.

Melting point / freezing point: Not applicable, Product is a liquid

Specific gravity: 1.1

| | |
|--|-----------------------------|
| Boiling point: | > 149 °C (> 300.2 °F) |
| Flash point: (Tagliabue closed cup) | 80 - 93 °C (176 - 199.4 °F) |
| Vapor pressure: (; 25 °C (77 °F)no method / method unknown; 50 °C (122 °F)) | < 0.5 mm hg < 700 hPa |
| Vapor density: | 3 |
| Density: | 1.05 g/cm3 |
| Auto ignition: | 485 °C |
| Decomposition temperature: | |
| VOC content: | < 2 % < 20 g/l |

SECTION 10. STABILITY AND REACTIVITY

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| Stability: | Stable under recommended storage conditions. |
| Conditions to avoid: | Keep away from sources of ignition and naked flames. |
| Incompatible materials: | Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols. |
| Hazardous decomposition products: | Thermal decomposition can lead to release of irritating gases and vapors. carbon monoxide Carbon dioxide. Oxides of nitrogen. |

SECTION 11 TOXICOLOGICAL INFORMATION

Health Effects:**Ingestion:**

Not expected to be harmful by ingestion. Rapidly polymerizes (solidifies) and bonds in mouth. It is almost impossible to swallow.

Skin:

Bonds skin in seconds. May cause skin irritation. Cyanoacrylates have been reported to cause allergic reaction but due to rapid polymerization at the skin surface, an allergic response is rare. Cyanoacrylates generate heat on solidification. In rare circumstances a large drop will burn the skin. Cured adhesive does not present a health hazard even if bonded to the skin.

Eyes:

Irritating to eyes. Causes excessive tearing. Eyelids may bond.

Inhalation:

Exposure to vapors above the established exposure limit results in respiratory irritation, which may lead to difficulty in breathing and tightness in the chest.

Acute toxicity:

| Hazardous components CAS-No. | Value type | Value | Route of application | Exposure time | Species | Method |
|------------------------------------|----------------------|---|------------------------------|------------------|----------------------|--|
| Ethyl 2-cyanoacrylate 7085-85-0 | LD50 LD50 | > 5,000 mg/kg > 2,000 mg/kg | oral dermal | | rat rabbit | equivalent or similar to OECD Guideline 423 (Acute Oral toxicity) equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity) |
| Carbon black - Nano 1333-86-4 | LD50 LC50 | > 8,000 mg/kg | oral inhalation | 4 h | rat rat | OECD Guideline 401 (Acute Oral Toxicity) not specified |
| phthalic anhydride 85-44-9 | LD50 LC50 LD50 | 1,530 mg/kg > 2.14 mg/l > 3,160 mg/kg | oral inhalation dermal | 4 h | rat rat rabbit | not specified OECD Guideline 403 (Acute Inhalation Toxicity) not specified |
| Hydroquinone 123-31-9 | LD50 LD50 | 367 mg/kg > 2,000 mg/kg | oral dermal | | rat rabbit | OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 402 (Acute Dermal Toxicity) |

Skin corrosion/irritation:

| Hazardous components CAS-No. | Result | Exposure time | Species | Method |
|------------------------------------|-----------------------|------------------|---------|---|
| Ethyl 2-cyanoacrylate 7085-85-0 | slightly irritating | 24 h | rabbit | equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Carbon black - Nano 1333-86-4 | not irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| phthalic anhydride 85-44-9 | moderately irritating | 24 h | rabbit | not specified |
| Hydroquinone 123-31-9 | not irritating | 24 h | rabbit | Weight of evidence |

Serious eye damage/irritation:

| Hazardous components CAS-No. | Result | Exposure time | Species | Method |
|------------------------------------|--|------------------|---------|--|
| Ethyl 2-cyanoacrylate 7085-85-0 | irritating | | rabbit | equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Carbon black - Nano 1333-86-4 | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| phthalic anhydride 85-44-9 | Category 1 (irreversible effects on the eye) | | rabbit | not specified |

Respiratory or skin sensitization:

| Hazardous components CAS-No. | Result | Test type | Species | Method |
|------------------------------------|-----------------|------------------------------------|------------|--|
| Ethyl 2-cyanoacrylate 7085-85-0 | not sensitising | Skin sensitisation | guinea pig | not specified |
| Carbon black - Nano 1333-86-4 | not sensitising | Mouse local lymphnode assay (LLNA) | mouse | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| phthalic anhydride 85-44-9 | sensitising | Guinea pig maximisation test | guinea pig | equivalent or similar to OECD Guideline 406 (Skin Sensitisation) |
| phthalic anhydride 85-44-9 | sensitising | Mouse local lymphnode assay (LLNA) | mouse | equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| Hydroquinone 123-31-9 | sensitising | Guinea pig maximisation test | guinea pig | equivalent or similar to OECD Guideline 406 (Skin Sensitisation) |
| Hydroquinone 123-31-9 | sensitising | Mouse local lymphnode assay (LLNA) | mouse | equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |

Germ cell mutagenicity:

| Hazardous components CAS-No. | Result | Type of study / Route of administration | Metabolic activation / Exposure time | Species | Method |
|---|--|---|--|-----------------------|--|
| Ethyl 2-cyanoacrylate 7085-85-0 | negative negative negative | bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test mammalian cell gene mutation assay | with and without with and without with and without | | equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Carbon black - Nano 1333-86-4 | negative negative negative negative | bacterial reverse mutation assay (e.g Ames test) mammalian cell gene mutation assay sister chromatid exchange assay in mammalian cells in vitro mammalian cell micronucleus test mammalian cell gene mutation assay | with and without with and without with and without with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) OECD Guideline 479 (Genetic Toxicology: In Vitro Sister Chromatid Exchange Assay in Mammalian Cells) OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test) OECD Guideline 490 (In Vitro Mammalian Cell Gene Mutation Tests Using the Thymidine Kinase Gene) |
| Carbon black - Nano 1333-86-4 | negative | inhalation | | rat | OECD Guideline 489 (In Vivo Mammalian Alkaline Comet Assay) |
| phthalic anhydride 85-44-9 | negative negative negative negative | bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test mammalian cell gene mutation assay sister chromatid exchange assay in mammalian cells | with and without with and without with and without with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) Chromosome Aberration Test OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) DNA damage and repair assay, UDS in mammalian cells |
| phthalic anhydride 85-44-9 | negative | intraperitoneal | | mouse | equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| Hydroquinone 123-31-9 | negative negative positive | bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test mammalian cell gene mutation assay | with and without with and without with and without | | equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Hydroquinone 123-31-9 | positive negative positive | intraperitoneal oral: gavage intraperitoneal | | mouse rat mouse | equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test) equivalent or similar to OECD Guideline 483 (Mammalian Spermatogonial Chromosome Aberration Test) |

Repeated dose toxicity:

| Hazardous components CAS-No. | Result | Route of application | Exposure time / Frequency of treatment | Species | Method |
|----------------------------------|------------------------|-------------------------|--|---------|---|
| Carbon black - Nano 1333-86-4 | NOAEL=> 1,000 mg/kg | oral: gavage | 90 ddaily | rat | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| Carbon black - Nano 1333-86-4 | NOAEL=1 mg/m3 | inhalation | 13 w6 h/d, 5 d/w | rat | not specified |
| phthalic anhydride 85-44-9 | NOAEL=500 mg/kg | oral: feed | 105 wdaily | rat | not specified |
| Hydroquinone 123-31-9 | NOAEL=50 mg/kg | oral: gavage | 13 w5 d/w | rat | not specified |
| Hydroquinone 123-31-9 | NOAEL=73.9 mg/kg | dermal | 13 w6 h/d, 5 d/w | rat | equivalent or similar to OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study) |

SECTION 12. ECOLOGICAL INFORMATION

General ecological information:

Do not empty into drains / surface water / ground water.

Ecotoxicity:

H401 Toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

Toxicity:

| Hazardous components CAS-No. | Value type | Value | Acute Toxicity Study | Exposure time | Species | Method |
|----------------------------------|---------------|--------------------------------|----------------------------|------------------|---|---|
| Carbon black - Nano 1333-86-4 | LC50 | Toxicity > Water solubility | Fish | 96 h | Danio rerio | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Carbon black - Nano 1333-86-4 | EC50 | Toxicity > Water solubility | Daphnia | 24 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Carbon black - Nano 1333-86-4 | EC50 | Toxicity > Water solubility | Algae | 72 h | Desmodesmus subspicatus | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Carbon black - Nano 1333-86-4 | EC10 | Toxicity > Water solubility | Algae | 72 h | Desmodesmus subspicatus | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Carbon black - Nano 1333-86-4 | EC0 | Toxicity > Water solubility | Bacteria | 3 h | activated sludge, domestic | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) DIN 38412-15 |
| phthalic anhydride 85-44-9 | LC50 | 313 mg/l | Fish | 48 h | Leuciscus idus | |
| phthalic anhydride 85-44-9 | NOEC | 10 mg/l | Fish | 60 d | no data | OECD Guideline 210 (fish early life stage toxicity test) other guideline: |
| phthalic anhydride 85-44-9 | EC50 | > 640 mg/l | Daphnia | 48 h | Daphnia magna | |
| phthalic anhydride 85-44-9 | EC50 | > 100 mg/l | Algae | 72 h | not specified | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| phthalic anhydride 85-44-9 | NOEC | 100 mg/l | Algae | 72 h | not specified | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| phthalic anhydride 85-44-9 | EC50 | > 1,000 mg/l | Bacteria | 3 h | activated sludge | ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge) |
| Hydroquinone 123-31-9 | LC50 | 0.638 mg/l | Fish | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Hydroquinone 123-31-9 | EC50 | 0.134 mg/l | Daphnia | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Hydroquinone 123-31-9 | EC50 | 0.335 mg/l | Algae | 72 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Hydroquinone 123-31-9 | EC 50 | 0.038 mg/l | Bacteria | 30 min | | not specified |

Persistence and degradability:

| Hazardous components CAS-No. | Result | Route of application | Degradability | Method |
|---------------------------------|--------|-------------------------|---------------|--------|
|---------------------------------|--------|-------------------------|---------------|--------|

| | | | | |
|------------------------------------|----------------------------|---------|-----------|--|
| Ethyl 2-cyanoacrylate 7085-85-0 | not readily biodegradable. | aerobic | 57 % | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |
| phthalic anhydride 85-44-9 | readily biodegradable | aerobic | 85.2 % | OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I)) |
| Hydroquinone 123-31-9 | readily biodegradable | aerobic | 75 - 81 % | EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test) |

Bioaccumulative potential / Mobility in soil:

| Hazardous components CAS-No. | LogPow | Bioconcentration factor (BCF) | Exposure time | Species | Temperature | Method |
|------------------------------------|--------|----------------------------------|------------------|---------|-------------|---------------------------------------|
| Ethyl 2-cyanoacrylate 7085-85-0 | 0.776 | | | | 22 °C | EU Method A.8 (Partition Coefficient) |
| phthalic anhydride 85-44-9 | 1.6 | | | | | EU Method A.8 (Partition Coefficient) |
| Hydroquinone 123-31-9 | 0.59 | | | | | EU Method A.8 (Partition Coefficient) |

SECTION 13. DISPOSAL CONSIDERATIONS**Waste disposal of product:**

Cured adhesive: Dispose of as water insoluble non-toxic solid chemical in authorised landfill or incinerate under controlled conditions.
Dispose of in accordance with local and national regulations.
Contribution of this product to waste is very insignificant in comparison to article in which it is used

Disposal for uncleaned package:

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.
Disposal must be made according to official regulations.

SECTION 14. TRANSPORT INFORMATION**Dangerous Goods information:****Land Transport:**

Not classified as Dangerous Goods under the Land Transport Rule: Dangerous Goods 2005.

Marine transport IMDG:

Not dangerous goods

Air transport IATA:

| | |
|----------------------------------|---|
| UN no.: | 3334 |
| Proper shipping name: | Aviation regulated liquid, n.o.s. (Cyanoacrylate ester) |
| Class or division: | 9 |
| Packing group: | III |
| Packing instructions (passenger) | 964 |
| Packing instructions (cargo) | 964 |
| Additional Information IATA: | Primary packs containing less than 500ml are unregulated by this mode of transport and may be shipped unrestricted. |

SECTION 15. REGULATORY INFORMATION

New Zealand regulatory information:

Classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO).

HSNO Approval Number: Group standard HSR002657

NZIoC: Compliant for NZIOC

SECTION 16. OTHER INFORMATION

Abbreviations/acronyms: STEL - Short term exposure limit
TWA - Time weighted average
HSNO - Hazardous Substances and New Organisms
IMDG: International Maritime Dangerous Goods code
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations

Reason for issue: Reviewed SDS. Reissued with new date. involved chapters: 1-16

Date of previous issue: 02.07.2020

Disclaimer:

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