ACN: 059 357 890 ABN: 77 695 661 635



# Narcan, naloxone hydrochloride 400 µg/mL injection

### Phebra Pty Ltd

Chemwatch: **4777-96** Version No: **2.1.1.1** 

Material Safety Data Sheet according to NOHSC and ADG requirements

Chemwatch Hazard Alert Code: 1

Issue Date: **27/06/2017**Print Date: **07/03/2018**S.Local.AUS.EN

### SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

### **Product Identifier**

Product name	Narcan, naloxone hydrochloride 400 μg/mL injection		
Chemical Name	water		
Synonyms	Narcan (naloxone hydrochloride) 400 micrograms in 1 mL injection		
Other means of identification	Not Available		

### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses
--------------------------

NARCAN® is indicated for the complete or partial reversal of opioid depression, including respiratory depression, induced by opioids including natural and synthetic opioids, propoxyphene, methadone and the narcotic-antagonist analgesics: nalbuphine, pentazocine and butorphanol. NARCAN® is also indicated for the diagnosis of suspected acute opioid overdosage.

### Details of the supplier of the safety data sheet

Registered company name	Phebra
Address	19 Orion Road Lane Cove West NSW 2066 Australia
Telephone	+61 2 9420 9199 1800 720 020
Fax	+61 2 9420 9177
Website	www.phebra.com
Email	info@phebra.com

# Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	+61 401 264 004
Other emergency telephone numbers	N/A

# **SECTION 2 HAZARDS IDENTIFICATION**

### Classification of the substance or mixture

### NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. According to NOHSC Criteria, and ADG Code.

### CHEMWATCH HAZARD RATINGS

	Min	Max	
Flammability	0		
Toxicity	0		0 = Minimum
Body Contact	1		1 = Low 2 = Moderate
Reactivity	0		3 = High
Chronic	0		4 = Extreme

Poisons Schedule	S4
Risk Phrases [1]	Not Applicable
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS; 3. Classification drawn from EC Directive 1272/2008 - Annex VI

### Not Applicable

Relevant risk statements are found in section 2

Indication(s) of danger	Not Applicable

### SAFETY ADVICE

Not Applicable

### Other hazards

May produce discomfort of the eyes and skin\*.

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# SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

### Substances

See section below for composition of Mixtures

### Mixtures

CAS No	%[weight]	Name
7647-14-5	0.9	sodium chloride
51481-60-8	0.04	naloxone hydrochloride
7732-18-5	99.06	water
		(for injection in Bulk)

### **SECTION 4 FIRST AID MEASURES**

### Description of first aid measures

Eye Contact	If this product comes in contact with the eyes:  Wash out immediately with fresh running water.  Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  Seek medical attention without delay; if pain persists or recurs seek medical attention.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs:  ► Immediately remove all contaminated clothing, including footwear.  ► Flush skin and hair with running water (and soap if available).  ► Seek medical attention in event of irritation.
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### **SECTION 5 FIREFIGHTING MEASURES**

# Extinguishing media

- ▶ There is no restriction on the type of extinguisher which may be used.
- $\blacksquare \ \ \, \text{Use extinguishing media suitable for surrounding area.}$

# Special hazards arising from the substrate or mixture

Special nazards arising from the substrate or mixture		
Fire Incompatibility	None known.	
Advice for firefighters		
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>	
Fire/Explosion Hazard	<ul> <li>Non combustible.</li> <li>Not considered a significant fire risk, however containers may burn.</li> <li>May emit corrosive fumes.</li> </ul>	
HAZCHEM	Not Applicable	

# SECTION 6 ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal precautions, protect	tive equipment and emergency procedures
Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>
Major Spills	Moderate hazard.  Clear area of personnel and move upwind.  Alert Fire Brigade and tell them location and nature of hazard.  Wear breathing apparatus plus protective gloves.  Prevent, by any means available, spillage from entering drains or water course.  Stop leak if safe to do so.  Contain spill with sand, earth or vermiculite.

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Collect recoverable product into labelled containers for recycling.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

#### **SECTION 7 HANDLING AND STORAGE**

### Precautions for safe handling

- Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs.
  - Use in a well-ventilated area.
  - Prevent concentration in hollows and sumps.
  - Safe handling
- DO NOT enter confined spaces until atmosphere has been checked
- DO NOT allow material to contact humans, exposed food or food utensils.
- Avoid contact with incompatible materials.
- When handling, DO NOT eat, drink or smoke
- ▶ DO NOT allow clothing wet with material to stay in contact with skin
- Store in original containers.
- Keep containers securely sealed. No smoking, naked lights or ignition sources.
- Store in a cool, dry, well-ventilated area. Other information
  - Store away from incompatible materials and foodstuff containers
  - Protect containers against physical damage and check regularly for leaks.
  - Observe manufacturer's storage and handling recommendations contained within this SDS.

Keep cool. Store below 25 deg.C

#### Conditions for safe storage, including any incompatibilities

Suitable container

- ► Polyethylene or polypropylene container.
- Packing as recommended by manufacturer.
- Check all containers are clearly labelled and free from leaks.
- |NARCAN® Injection is available as naloxone hydrochloride 400 micrograms in 1 mL ampoule ( pack size 10 ampoules)

Storage incompatibility None known

### **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

#### Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Not Available

### EMERGENCY LIMITS

Ingredient	Material name		TEEL-1	TEEL-2	TEEL-3
sodium chloride	Chloride; (Chloride(1-); Chloride ions)		0.5 ppm	2 ppm	20 ppm
Ingredient	Original IDLH	H Revised IDLH			
sodium chloride	Not Available	No	Not Available		
naloxone hydrochloride	Not Available	No	Not Available		
water	Not Available	No	Not Available		

### **Exposure controls**

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk. Appropriate engineering

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use

Employers may need to use multiple types of controls to prevent employee overexposure.

General exhaust is adequate under normal operating conditions

### Personal protection









controls

- Safety glasses with side shields.
- Chemical goggles

# Eye and face protection

Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly.

# Skin protection

See Hand protection below

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Hands/feet protection	<ul> <li>▶ Wear chemical protective gloves, e.g. PVC.</li> <li>▶ Wear safety footwear or safety gumboots, e.g. Rubber</li> <li>The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer.</li> <li>Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.</li> <li>The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.</li> <li>Personal hygiene is a key element of effective hand care. Gloves must only be wom on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.</li> <li>Suitability and durability of glove type is dependent on usage.</li> </ul>
Body protection	See Other protection below
Other protection	<ul> <li>▶ Overalls.</li> <li>▶ P.V.C. apron.</li> <li>▶ Barrier cream.</li> <li>▶ Skin cleansing cream.</li> <li>▶ Eye wash unit.</li> </ul>
Thermal hazards	Not Available

#### Recommended material(s)

#### GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the computergenerated selection:

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Material	СРІ
BUTYL	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NITRILE	С
PVA	С
VITON	С

<sup>\*</sup> CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

### Respiratory protection

Particulate. (AS/NZS 1716 & 1715, EN 143:2000 & 149:001, ANSI Z88 or national equivalent)

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

Required minimum protection factor	Maximum gas/vapour concentration present in air p.p.m. (by volume)	Half-face Respirator	Full-Face Respirator
up to 10	1000	-AUS / Class1 P2	-
up to 50	1000	-	-AUS / Class 1 P2
up to 50	5000	Airline *	-
up to 100	5000	-	-2 P2
up to 100	10000	-	-3 P2
100+			Airline**

<sup>\* -</sup> Continuous Flow \*\* - Continuous-flow or positive pressure demand  $A(AII\ classes) = Organic\ vapours,\ B\ AUS\ or\ B1 = Acid\ gasses,\ B2 = Acid\ gas\ or\ hydrogen$ cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G =  $Agricultural\ chemicals,\ K=Ammonia(NH3),\ Hg=Mercury,\ NO=Oxides\ of\ nitrogen,\ MB=0$ Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

### **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

# Information on basic physical and chemical properties

Appearance	Clear and colourless solution; mixes with water.		
Physical state	Liquid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	3-4	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

# **SECTION 10 STABILITY AND REACTIVITY**

Reactivity	See section 7

<sup>\*</sup> Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

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Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

# **SECTION 11 TOXICOLOGICAL INFORMATION**

Mutagenicity

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models).  Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.		
Ingestion	Not normally a hazard due to non-volatile nature of product  The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of		
-	corroborating animal or human evidence.		
Skin Contact	There is some evidence to suggest that this material can cause inflammation of t	·	
Eye	There is some evidence to suggest that this material can cause eye irritation and		
Chronic	Long-term exposure to the product is not thought to produce chronic effects advinevertheless exposure by all routes should be minimised as a matter of course.	erse to the health (as classified by EC Directives using animal models);	
Narcan, naloxone	TOXICITY	RRITATION	
hydrochloride 400 μg/mL injection	Not Available	Not Available	
	TOXICITY	RRITATION	
	Dermal (rabbit) LD50: >10000 mg/kg <sup>[1]</sup>	Eye (rabbit): 10 mg - moderate	
sodium chloride	Oral (rat) LD50: 3000 mg/kg <sup>[2]</sup>	Eye (rabbit):100 mg/24h - moderate	
		Skin (rabbit): 500 mg/24h - mild	
	TOXICITY	RRITATION	
naloxone hydrochloride	Not Available	Not Available	
water	TOXICITY	RRITATION	
water	Not Available	Not Available	
Legend:	Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. data extracted from RTECS - Register of Toxic Effect of chemical Substances	Value obtained from manufacturer's SDS. Unless otherwise specified	
SODIUM CHLORIDE	The material may produce moderate eye irritation leading to inflammation. Reperative material may cause skin irritation after prolonged or repeated exposure and scaling and thickening of the skin.		
NALOXONE HYDROCHLORIDE	Side effects of treatment with mhu (mu) opioid agonists such as morphine may include nausea, vomiting, sedation, constriction of the pupils, irritability, pallor, slow heart rate, low blood pressure, and sweating. Respiratory depression, psychological dependence and other disturbing psychotic effects have been recorded. Approved mu opioid antagonists for use in the treatment of these adverse effects include naloxone and naltrexone. Naloxone, in contrast to naltrexone may be addictive. High doses of naltrexone may be toxic to the liver.		
Narcan, naloxone hydrochloride 400 μg/mL	No significant acute toxicological data identified in literature search.		
injection & WATER			
	Asthma-like symptoms may continue for months or even years after exposure to t reactive airways dysfunction syndrome (RADS) which can occur after exposure RADS include the absence of previous airways disease in a non-atopic individual hours of a documented exposure to the irritant. Other criteria for diagnosis of RA severe bronchial hyperreactivity on methacholine challenge testing, and the lack asthma) following an irritating inhalation is an infrequent disorder with rates relat substance. On the other hand, industrial bronchitis is a disorder that occurs as a particles) and is completely reversible after exposure ceases. The disorder is ch	to high levels of highly irritating compound. Main criteria for diagnosing, with sudden onset of persistent asthma-like symptoms within minutes IDS include a reversible airflow pattern on lung function tests, moderate of minimal lymphocytic inflammation, without eosinophilia. RADS (or ed to the concentration of and duration of exposure to the irritating result of exposure due to high concentrations of irritating substance (or	
injection & WATER  SODIUM CHLORIDE &  NALOXONE	reactive airways dysfunction syndrome (RADS) which can occur after exposure RADS include the absence of previous airways disease in a non-atopic individual hours of a documented exposure to the irritant. Other criteria for diagnosis of RA severe bronchial hyperreactivity on methacholine challenge testing, and the lack asthma) following an irritating inhalation is an infrequent disorder with rates relat substance. On the other hand, industrial bronchitis is a disorder that occurs as a particles) and is completely reversible after exposure ceases. The disorder is ch	to high levels of highly irritating compound. Main criteria for diagnosing, with sudden onset of persistent asthma-like symptoms within minutes to DS include a reversible airflow pattern on lung function tests, moderate of minimal lymphocytic inflammation, without eosinophilia. RADS (or ed to the concentration of and duration of exposure to the irritating result of exposure due to high concentrations of irritating substance (or aracterized by difficulty breathing, cough and mucus production.	
injection & WATER  SODIUM CHLORIDE &  NALOXONE  HYDROCHLORIDE	reactive airways dysfunction syndrome (RADS) which can occur after exposure RADS include the absence of previous airways disease in a non-atopic individual hours of a documented exposure to the irritant. Other criteria for diagnosis of RA severe bronchial hyperreactivity on methacholine challenge testing, and the lack asthma) following an irritating inhalation is an infrequent disorder with rates relat substance. On the other hand, industrial bronchitis is a disorder that occurs as a particles) and is completely reversible after exposure ceases. The disorder is ch	to high levels of highly irritating compound. Main criteria for diagnosing, with sudden onset of persistent asthma-like symptoms within minutes: DS include a reversible airflow pattern on lung function tests, moderate of minimal lymphocytic inflammation, without eosinophilia. RADS (or ed to the concentration of and duration of exposure to the irritating result of exposure due to high concentrations of irritating substance (caracterized by difficulty breathing, cough and mucus production.	
injection & WATER  SODIUM CHLORIDE & NALOXONE HYDROCHLORIDE  Acute Toxicity	reactive airways dysfunction syndrome (RADS) which can occur after exposure RADS include the absence of previous airways disease in a non-atopic individual hours of a documented exposure to the irritant. Other criteria for diagnosis of RA severe bronchial hyperreactivity on methacholine challenge testing, and the lack asthma) following an irritating inhalation is an infrequent disorder with rates relat substance. On the other hand, industrial bronchitis is a disorder that occurs as a particles) and is completely reversible after exposure ceases. The disorder is ch	to high levels of highly irritating compound. Main criteria for diagnosing, with sudden onset of persistent asthma-like symptoms within minutes to DS include a reversible airflow pattern on lung function tests, moderate of minimal lymphocytic inflammation, without eosinophilia. RADS (or ed to the concentration of and duration of exposure to the irritating result of exposure due to high concentrations of irritating substance (or aracterized by difficulty breathing, cough and mucus production.	

Legend:

Aspiration Hazard

— Data available but does not fill the criteria for classification
 — Data available to make classification

0

O – Data Not Available to make classification

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### **SECTION 12 ECOLOGICAL INFORMATION**

#### Toxicity

Narcan, naloxone	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
hydrochloride 400 µg/mL injection	Not Available	Not Available	Not Available	Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
	LC50	96	Fish	1000mg/L	4
sodium chloride	EC50	48	Crustacea	402.6mg/L	4
	EC50	96	Algae or other aquatic plants	2430mg/L	4
	NOEC	6	Fish	0.001mg/L	4
naloxone hydrochloride	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
	Not Available	Not Available	Not Available	Not Available	Not Available
water	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
	Not Available	Not Available	Not Available	Not Available	Not Available

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
sodium chloride	LOW	LOW
water	LOW	LOW

### Bioaccumulative potential

Ingredient	Bioaccumulation	
sodium chloride	LOW (LogKOW = 0.5392)	
water	LOW (LogKOW = -1.38)	

# Mobility in soil

Ingredient	Mobility
sodium chloride	LOW (KOC = 14.3)
water	LOW (KOC = 14.3)

# **SECTION 13 DISPOSAL CONSIDERATIONS**

### Waste treatment methods

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

- ► Reduction
- ▶ Reuse
- ▶ Recycling
- ► Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.

- Product / Packaging disposal

  | Type: Note that properties of a material may change in use, and recycling or reuse may be noted by the polyment of the properties of a material may change in use, and recycling or reuse may be noted by the polyment of the polyment of the properties of a material may change in use, and recycling or reuse may be noted by the polyment of the polyment
  - It may be necessary to collect all wash water for treatment before disposal.
  - In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
  - ▶ Where in doubt contact the responsible authority.
  - ► Recycle wherever possible.
  - Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
  - Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material).
  - Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

### **SECTION 14 TRANSPORT INFORMATION**

### Labels Required

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Marine Pollutant NO
HAZCHEM Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

### **SECTION 15 REGULATORY INFORMATION**

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

SODIUM CHLORIDE(7647-14-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

NALOXONE HYDROCHLORIDE(51481-60-8) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

#### WATER(7732-18-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

National Inventory	Status
Australia - AICS	Y
Canada - DSL	N (naloxone hydrochloride)
Canada - NDSL	N (water; naloxone hydrochloride; sodium chloride)
China - IECSC	N (naloxone hydrochloride)
Europe - EINEC / ELINCS / NLP	Υ
Japan - ENCS	N (naloxone hydrochloride)
Korea - KECI	N (naloxone hydrochloride)
New Zealand - NZIoC	Υ
Philippines - PICCS	N (naloxone hydrochloride)
USA - TSCA	N (naloxone hydrochloride)
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

### **SECTION 16 OTHER INFORMATION**

### Other information

# Ingredients with multiple cas numbers

=	
Name	CAS No
sodium chloride	7647-14-5, 14762-51-7, 16887-00-6
naloxone hydrochloride	51481-60-8, 357-08-4

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

### **Definitions and abbreviations**

 ${\sf PC-TWA} : {\sf Permissible\ Concentration-Time\ Weighted\ Average}$ 

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

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Narcan, naloxone hydrochloride 400  $\mu g/mL$  injection

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