## **SAFETY DATA SHEETS**

# This SDS packet was issued with item:

078950586

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078950587 078950588 078950589 078950590 078950591 078950592 078950593 078950594

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OFOTION 4 IDENTIFICATION		
SECTION 1: IDENTIFICATION		
4.4. Dec. 1. (1.1) (1.6)		
1.1 Product identifier		
Product name	1 1	
Chemical name	carprofen	
Synonyms	C <sub>15</sub> -H <sub>12</sub> -Cl-N-O <sub>2</sub> ; 9H-carbazole-2-acetic acid, 6-chloro-alpha-methyl-, (+/-)-;	
	dl-6-chloro-alpha-methylcarbazole-2-acetic acid; C-5720; Carprofena;	
	Imadyl; Rimadyl; NSAID; anti-inflammatory/ analgesic	
Proper shipping name	Medicine, solid, toxic, n.o.s. (contains carprofen)	
Chemical formula	C <sub>15</sub> -H <sub>12</sub> -Cl-N-O <sub>2</sub>	
Other means ofidentification	Not Available	
CAS number	53716-49-7	
1.2 Relevant identified uses of the substances or mixture and uses advised against		
Recommended uses	For the relief of pain and inflammation associated with osteoarthritis and for	
	the control of postoperative pain associated with soft tissue and orthopedic	
	surgeries in dogs; for professional use only. Federal law restricts this drug	
	to be used by or on a order of a licensed veterinarian.	
	This SDS is written to address potential worker health and safety issues	
	associated with the handling of the mixture	
1.3 Details of the supplier of the substance or mixture		
Registered company name (US)	Vedco, Inc.	
Address	5503 Corporate Drive St.	
	Joseph, MO 64507 USA	
Telephone	816-238-8840	
Fax	Not Available	
Email	Not Available	
1.4 Emergency telephone numbe	rs	
Dechra (US)	816-238-8840	

#### **SECTION 2: HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture

Safety Data Sheet according to OSHA HazCom Standard (2012) requirements (GHS.USA)

#### NFPA 704 diamond



Note: The hazard category numbers found in GHS classification insection 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification

Acute Toxicity (Oral) Category 3, Sensitisation (Skin) Category 1, Hazardous to the Aquatic Environment Long-Term Hazard Category 2

## 2.2 Label elements

Hazard pictogram(s)



Signal word	Danger

## Hazard statement(s)

H301 Toxic if swallowed.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

## Hazard(s) not otherwise classified

Not Applicable

## Precautionary statement(s) prevention

P264 Wash all exposed external body areas thoroughly after handling.
----------------------------------------------------------------------

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

P280 Wear protective gloves and protective clothing.

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P261	Avoid breathing dust/fumes.		
P273	Avoid release to the environment.		
P272	Contaminated work clothing must not be allowed out of the workplace.		
Precautionary statement(s) response			
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider.		
P330	Rinse mouth.		
P302+P352	IF ON SKIN: Wash with plenty of water.		
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.		
P362+P364	Take off contaminated clothing and wash it before reuse.		
P391	Collect spillage.		
Precautionary statement(s) storage			
P405	P405 Store locked up.		
Precautionary statement(s) disposal			
P501	Dispose of contents/container to authorised hazardous or special waste collection point in		
	accordance with any local regulation.		

SECTION 3: INFORMATION ON THE INGREDIENTS			
3.1 Substances			
CAS No.	% [weight]	Name	
53716-49-7	>98	<u>carprofen</u>	
3.2 Mixtures	e for composition of Substan	·	

SECTION	SECTION 4: FIRST AID MEASURES		
4.1 Descri	4.1 Description of first aid measures		
Eye contact			
Skin Immediately remove all contaminated clothing, including footwear. Wash exposed area with soap and water and remove contaminated clothing/shoes. If irritation occurs or persists, notify medical personnel and supervisor.			
Inhalation	<b>Inhalation</b> Immediately move exposed subject to fresh air. Immediately notify medical personnel and supervisor.		
Ingestion	Ingestion If swallowed, call a physician immediately. Wash out the mouth with water and notify medical personnel and supervisor.		
4.2 Most important symptoms and effects, both acute and delayed See section 11  4.3 Indication of immediate medical attention and special treatment needed Treat symptomatically			

SECTION 5: FIRE FIGHTING MEASURES			
5.1 Extinguishing	5.1 Extinguishing media		
Use foam, dry	chemical powder, BCF (where regulations permit), carbon dioxide or water spray or fog –		
large fires only			
5.2 Special hazard	5.2 Special hazards arising from the substance or mixture		
Fire	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches,		
incompatibility			
5.3 Special protect	5.3 Special protective actions for fire-fighters:		
Firefighting	Wear full body protective clothing with breathing apparatus. Prevent, by any means		
	available, spillage from entering drains or water course. Use fire fighting procedures		
	suitable for surrounding area DO NOT approach containers suspected to be hot. Cool		
	fire exposed containers with water spray from a protected location. If safe to do so,		
	remove containers from path of fire.		
Fire / explosion	Product itself is not explosive, but dust clouds suspended in are can be explosive.		
hazard	Hazardous conditions will not occur under normal conditions. Combustion products		
	include: carbon monoxide, carbon dioxide, hydrogen chloride, phosgene, nitrogen oxides		
	and other pyrolysis products typical of burning organic material. May emit poisonous fumes.		

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SECTION 6: ACCIDENTAL RELEASE MEASURES			
6.1 Personal pred	6.1 Personal precautions, protective equipment and emergency procedures		
See Section 8	3		
6.2 Environmenta	al precautions		
See Section 12	2		
6.3 Methods and r	naterial for containment and cleaning up		
Minor spills	with skin and eyes. Wear protective clothing, gloves, safety glasses and dust respirator. Use dry clean up procedures and avoid generating dust. Vacuum up or sweep up. <b>NOTE:</b> Vacuum cleaner must be fitted with an exhaust micro filter (HEPA type) (consider explosion-proof machines designed to be grounded during storage and use). Dampen with water to prevent dusting before sweeping. Place in suitable containers for disposal.		
Major spills	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. Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains.		
Personal Protective Equipment advice is contained in Section 8.			

SECTION 7: HANDLING AND STORAGE				
7.1 Precautions	7.1 Precautions for safe handling			
Safe handling	Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. 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. Keep containers securely sealed when not in use. Avoid physical damage to containers.			
Other information				
7.2 Conditions for	or safe storage, including any incompatibilities			
Suitable container	·   )			
Storage incompatibility	Avoid reaction with oxidising agents.			

SECTIO	SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION				
8.1 Con	trol parameters				
Occupational exposure limits (OEL) INGREDIENT DATA Not Available					
Emergency limits					
Ingredient			TEEL-1	TEEL-2	TEEL-3
CARPROFEN			Not Available	Not Available	Not Available
Ingredie	edient Original IDLH Revised IDLH				
carprofe					
Occupational Exposure Banding					
Ingredient Occupa		ational Exposure Band Rating   Occupational Exposure Band L		Band Limit	
carprofe	carprofen E ≤ 0.01 mg/m³				
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.				

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#### **MATERIAL DATA**

Airborne particulate or vapour must be kept to levels as low as is practicably achievable given access to modern engineering controls and monitoring hardware. Biologically active compounds may produce idiosyncratic effects which are entirely unpredictable on the basis of literature searches and prior clinical experience (both recent and past).

and paory.			
8.2 Exposure controls			
Avoid creating or spreading dust. Ensure adequate ventilation, especially in confined			
areas. Emergency eye wash fountains and safety showers should be available in the			
immediate vicinity of any potential exposure. Ensure all national/local regulations are			
observed.			
When handling very small quantities of the material eye protection may not be required.			
For laboratory, larger scale or bulk handling or where regular exposure in an			
occupational setting occurs: chemical goggles, face shield, full face shield may be			
required. Contact lenses may pose a special hazard.			
See Hand protection below.			
In laboratory, medical or industrial settings, impervious disposable gloves and protective			
clothing are recommended if skin contact with drug product is possible.			
See Other protection below			
For quantities up to 500 grams a laboratory coat may be suitable. For quantities up to 1			
kilogram a disposable laboratory coat or coverall of low permeability is recommended.			
Coveralls should be buttoned at collar and cuffs. For quantities over 1 kilogram and			
manufacturing operations, wear disposable coverall of low permeability and disposable			
shoe covers. For manufacturing operations, air-supplied full body suits may be required			
for the provision of advanced respiratory protection. Eye wash unit. Ensure there is ready			
access to an emergency shower. For Emergencies: Vinyl suit.			
When manufacturing or handling product in large quantities and dusts or particulates may			
be generated, maintain airborne concentrations below recommended limits. Workplace			
risk assessments should be completed before specifying and implementing respirator			
usage. NIOSH/MSHA approved respirators for protection should be used if found to be			
necessary.			
Particulate. (AS/NZS 1716 & 1715, EN 143:2000 & 149:001, ANSI Z88 or national			
equivalent).			

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

## 9.1 Information on basic physical and chemical properties

Appearance: Solid Physical state: Solid Odor: Not Available Odor threshold: NA

Melting point / freezing point (degrees C): NA Initial boiling point and boiling range: NA

Flash point: NA Evaporation rate: NA Flammability: Flammable

Upper/lower flammability or explosive limits: NA

Vapor pressure: NA

pH (as supplied): NA

Relative density (at degrees C): NA Solubility in water (mg/l): Partly miscible

Vapor density: NA

Auto ignition temperature (degrees C): NA Decomposition temperature (degrees C): NA Viscosity (degrees C): NA

Explosive properties: NA
Oxidizing properties: NA
Partition coefficient: NA
Molecular weight: 273.73

Taste: NA

Surface tension: NA

Volatile component (%vol): NA

Gas group: NA pH as a solution: NA VOC g/L: NA

Specific gravity @ 20 degrees C (water = 1): NA

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10: STABILITY AND REACTIVITY		
Reactivity	See Section 7	
Chemical stability	Product is considered stable. Hazardous polymerization will not occur.	
	Unstable in the presence of incompatible materials	
Possibility of hazardous reactions	See Section 7	
Conditions to avoid	See Section 7	
Incompatible materials	See Section 7	
Hazardous composition	See Section 5	

SECTION 11: TOXICOLOGICAL INFORMATION					
Inhalation	The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models). Nevertheless inhalation of dusts, or fumes, especially for prolonged periods, may produce respiratory discomfort and occasionally, distress. Inhalation of dusts, generated by the material during the course of normal handling, may be damaging to the health of the individual.				
Ingestion	Toxic effects may result from the accidental ingestion of the material; animal experiments indicate that ingestion of less than 40 gram may be fatal or may produce serious damage to the health of the individual.				
Skin contact	The material is not thought to be a skin irritant (as classified by EC Directives using animal models). Abrasive damage however, may result from prolonged exposures. Good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.				
Eye contact	Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may cause transient discomfort characterised by tearing or conjunctival redness. Slight abrasive damage may also result. The material may produce foreign body irritation in certain individuals.				
Chronic	Practical experience shows that skin contact with the material is capable either of inducing a sensitisation reaction in a substantial number of individuals. There is some evidence that human exposure to the material may result in developmental toxicity. Long term exposure to high dust concentrations may cause changes in lung function (i.e. pneumoconiosis) caused by particles less than 0.5 micron penetrating and remaining in the lung.				
carprofen Acute toxicity		Irritation			
· ·	Oral (Rat) LD50. 74 mg/kg <sup>-1</sup>		Not Available		
1 Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances					
CARPROFEN	CARPROFEN The following information refers to contact allergens as a group and may not be specific to this product.  Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema.				
	Acute Toxicity	✓		Carcinogenicity	x
	Skin Irritation/Corrosion	x	Reproductivity *		×
	Serios Eye Damage/Irritation	*	STOT – Single Exposure *		×
Res	piratory or Skin Sensitization	✓	STOT – Repeated Exposure *		
Mutagenicity * Aspiration Hazard		*			
<ul> <li>Data eithe</li> </ul>	■ - Data either not available or does not fill the criteria for classification,  ✓ - Data available to make classification			1	

SECTION 12: ECOLOGICAL INFORMATION					
12.1 Toxicity					
	Endpoint	Test Duration (hr)	Species	Value	Source
carprofen	Not Available	Not Available	Not Available	Not Available	Not Available
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					

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Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. DO NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters. Wastes resulting from use of the product must be disposed of on site or at approved waste sites. DO NOT discharge into sewer or waterways.

12.2 Persistence and degradability			
Ingredient	Persistence: Water/Soil	Persistence: Air	
carprofen	HIGH	HIGH	
12.3 Bioaccumulative potential			
Ingredient	Bioaccumulation		
carprofen	LOW (LogKOW = 3.7888)		
12.4 Mobility in soil			
Ingredient	Mobility		
carprofen	LOW (KOC = 816.3)		

SECTION 13: DISPOSAL CONSIDERATIONS			
13.1 Waste treatment methods			
Disposal of the material must be carried out in accordance with the requirements of the			
relevant Federal/State Act(s) or Code(s) regulating the disposal of Drugs of Addiction.			
DO NOT allow wash water from cleaning or process equipment to enter drains.			
C			

SECTION 14: TRANSPORT INFORMATION				
OLOTION 14: INAMOLOKI II	INFORMATION			
Labels required				
,				
Marine pollutant	***			
Land transport (US: DOT)				
UN number	3249			
UN proper shipping name	Medicine, solid, toxic, n.o.s. (contains carprofen)			
Transport hazard class(es)	Class 3			
. ,	Subrisk Not Applicable			
Packing group	III			
Environmental hazard	Environmentally hazardous			
Special precautions for user	Hazard Label 6.1			
•	Special provisions T3, TP33			
Land transport (ICAO-IATA / DGR)				
UN number	3249			
UN proper shipping name	Medicine, solid, toxic, n.o.s. (contains carprofen)			
	ICAO/IATA Class	6.1		
Transport hazard class(es)	ICAO / IATA Subrisk	Not Applicable		
	ERG Code	6L		
Packing group	III			
Environmental hazard	Environmentally hazardous			
	Special provisions	A3		
	Cargo Only Packing Instructions	677		
	Cargo Only Maximum Qty / Pack	200 kg		
Special precautions for user	Passenger and Cargo Packing Instructions	670		
	Passenger and Cargo Maximum Qty / Pack	100 kg		
	Passenger and Cargo Limited Quantity Packing Instructions	Y645		
	Passenger and Cargo Limited Maximum Qty / Pack	5 kg		
Land transport IMDG-Code / GGVSee)				
UN number				

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UN proper shipping name	Medicine, solid, toxic, n.o.s. (contains carprofen)			
Transport hazard class(es)	Class	Class		
	Subrisk	Subrisk		
Packing group	III			
Environmental hazard	Environmentally hazardous			
	EMS Number	F-A, S-A		
Special precautions for user	Special provisions	221 223		
	Limited Quantities	5 kg		
Transport in bulk according to Annex II of MARPOL and the IBC code				
Not Applicable				
Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code				
Product name	e Group			
carprofe	Not Applicable			
Transport in bulk in accordance with the ICG Code				
Product name	Product name   Ship type			
carprofe	n Not Applicable	Not Applicable		

## **SECTION 15: REGULATORY INFORMATION**

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

Product regulated by FDA as a veterinary product.

#### carprofen is found on the following regulatory lists

FEI Equine Prohibited Substances List - Controlled medication, FEI Equine Prohibited Substances List (EPSL)

Federal Regulations	_
Superfund Amendments and Reauthorization Act of 1986 (SARA)	

	-,,	
Section 311/312 hazard categories		
Flammable (Gases, Aerosols, Liquids, or Solids)	No	
Gas under pressure	No	
Explosive	No	
Self-heating	No	
Pyrophoric (Liquid or Solid)	No	
Pyrophoric Gas	No	
Corrosive to metal	No	
Oxidizer (Liquid, Solid or Gas)	No	
Organic Peroxide	No	
Self-reactive	No	
In contact with water emits flammable gas	No	
Combustible Dust	No	
Carcinogenicity	No	
Acute toxicity (any route of exposure)	Yes	
Reproductive toxicity	No	
Skin Corrosion or Irritation	No	
Respiratory or Skin Sensitization	Yes	
Serious eye damage or eye irritation	No	
Specific target organ toxicity (single or repeated exposure)	No	
Aspiration Hazard	No	
Germ cell mutagenicity	No	
Simple Asphyxiant	No	
Hazards Not Otherwise Classified	No	
HO EDA OFFICIA H		

# US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4) None reported

#### **State Regulations**

US. California Proposition 65

None reported

## **National Inventory Status**

Australia - AIIC / Australia Non-Industrial Use Yes

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Canada - DSL	No (carprofen)
Canada - NDSL	No (carprofen)
China - IECSC	No (carprofen)
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	No (carprofen)
Korea - KECI	No (carprofen)
New Zealand - NZIoC	Yes
Philippines - PICCS	No (carprofen)
USA - TSCA	No (carprofen)
Taiwan - TCSI	Yes
Mexico - INSQ	No (carprofen)
Vietnam - NCI	Yes
Russia - FBEPH	No (carprofen)

Yes = All CAS declared ingredients are on the inventory

No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration

## **SECTION 16: OTHER INFORMATION**

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**

PC-TWA: 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

ES: Exposure Standard 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

AIIC: Australian Inventory of Industrial Chemicals

DSL: Domestic Substances List NDSL: Non-Domestic Substances List

IECSC: Inventory of Existing Chemical Substance in China

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

NLP: No-Longer Polymers

ENCS: Existing and New Chemical Substances Inventory

KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals

PICCS: Philippine Inventory of Chemicals and Chemical Substances

TSCA: Toxic Substances Control Act

TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas

NCI: National Chemical Inventory

FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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