

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

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Sid Harvey part # RT330V

	distance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: RT310V Venom Pack Brightener
I.2. Relevant identified uses of the su	ubstance or mixture and uses advised against
1.3. Details of the supplier of the safe	ety data sheet
Refrigeration Technologies 1111 N. Armando St. Anaheim, CA 92806 - USA T 1-800-869-1407 <u>www.refrigtech.com</u>	
1.4. Emergency telephone number	
Emergency number	: 1-800-255-3924 ChemTel; International Calls 1-813-248-0585
SECTION 2: Hazards identification	h an
2.1. Classification of the substance o	r mixture
GHS-US classification	
Skin Corr. 1A	H314
2.2. Label elements	
GHS-US labelling	
Hazard pictograms (GHS-US)	
Signal word (GHS-US) Hazard statements (GHS-US) Precautionary statements (GHS-US)	 GHS05 Danger H314 - Causes severe skin burns and eye damage P260 - Do not breathe dust/fume/gas/mist/vapours/spray P264 - Wash thoroughly after handling P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a POISON CENTER or doctor/physician P321 - Specific treatment (see on this label) P363 - Wash contaminated clothing before reuse P405 - Store locked up P501 - Dispose of contents/container to
2.3. Other hazards	
No additional information available	
2.4. Unknown acute toxicity (GHS-US	0
No data available	
SECTION 3: Composition/informat	tion on ingredients
3.1. Substance	
Not applicable	
Full text of H-phrases: see section 16	
3.2. Mixture	

SDS # Z1105

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Name	Product identifier	%	GHS-US classification
sodium hydroxide	(CAS No)1310-73-2	5 - 40	Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 Aquatic Acute 3, H402

SECTION 4: First aid measures	
1.1. Description of 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).
First-aid measures after inhalation	: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after ingestion	 Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
4.2. Most important symptoms and effe	ects, both acute and delayed
Symptoms/injuries	: Causes severe skin burns and eye damage.
4.3. Indication of any immediate medic	al attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the su	: Thermal decomposition generates : Corrosive vapours.
Reactivity	
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release mea	asures
6.1. Personal precautions, protective e	quipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2 For emergency recorders	
6.1.2. For emergency responders Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	fer an de antites a Marten de la companya en en la Provinciana
Prevent entry to sewers and public waters. Noti	fy authorities if liquid enters sewers or public waters.
6.3. Methods and material for containm	
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store aways from other materials.
6.4. Reference to other sections	
See Heading 8. Exposure controls and persona	I protection.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: 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 vapour. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact during pregnancy/while nursing.
Hygiene measures	

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

7.2. Conditions for safe stora	ge, including any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.
Storage temperature	: >= 25 (5 - 42) °C
7.2 Specific and use(a)	

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

o.i. Control parameters		
sodium hydroxide (1310-73-2)		
USA ACGIH A	CGIH Ceiling (mg/m³)	2 mg/m ³
3.2. Exposure controls		
Personal protective equipment	: Avoid all unnecessary ex	xposure.
Hand protection	: Wear protective gloves.	
Eye protection	: Chemical goggles or face	e shield.
Skin and body protection	: Wear suitable protective	clothing.
Respiratory protection	: Wear appropriate mask.	
Other information	: Do not eat, drink or smol	ke during use.
SECTION 9: Physical and	chemical properties	
	nysical and chemical properties	
Physical state	: Liquid	
Colour	: Blue.	
Odour	: Characteristic odour.	
Ddour threshold	: No data available	
DH	: >= 8.5 (8 - 9)	
Relative evaporation rate (butylace	tate=1) : No data available	
Melting point	: No data available	
Freezing point	: <= 0 °C	
Boiling point	: >= 100 °C	
Flash point	: None	
Self ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: No data available	
/apour pressure	: No data available	
Relative vapour density at 20 °C	: No data available	
Relative density	: No data available	
Density	: >= 1.17 g/ml	
Solubility	: Soluble in water.	
_og Pow	: No data available	
Log Kow	: No data available	
Viscosity, kinematic	: No data available	

Oxidising properties

: No data available

: No data available

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
Therma	al decomposition generates : Corrosive vapours.
10.2.	Chemical stability
Not esta	ablished.
10.3.	Possibility of hazardous reactions
Not esta	ablished.
10.4.	Conditions to avoid
Direct s	sunlight. Extremely high or low temperatures.
10.5.	Incompatible materials
Strong	acids. Strong bases.
10.6.	Hazardous decomposition products
fume. C	Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapours.
SECT	ION 11: Toxicological information
11.1.	Information on toxicological effects
Acute to	oxicity : Not classified

sodium hydroxide (1310-73-2)	
LD50 dermal rabbit	1350 mg/kg (Rabbit; Literature, Rabbit; Literature)
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
	pH: >= 8.5 (8 - 9)
Serious eye damage/irritation	: Not classified
	pH: >= 8.5 (8 - 9)
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: Readily biodegradable 28 days.
sodium hydroxide (1310-73-2)	
LC50 fishes 1	45.4 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Solution >=50%)
EC50 Daphnia 1	40.4 mg/l (48 h; Ceriodaphnia sp.; Nominal concentration)
LC50 fish 2	189 mg/l (48 h; Leuciscus idus)
TLM fish 1	99 mg/l (48 h; Lepomis macrochirus)
TLM fish 2	125 ppm (96 h; Gambusia affinis)
12.2. Persistence and degradability	
RT310V Venom Pack Brightener	
Persistence and degradability	Biodegradable in the soil. Biodegradable in water. Not established.
sodium hydroxide (1310-73-2)	
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the substance available.

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

sodium hydroxide (1310-73-2)	
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
12.3. Bioaccumulative potential	
RT310V Venom Pack Brightener	
Bioaccumulative potential	Not established.
sodium hydroxide (1310-73-2)	
Bioaccumulative potential	Bioaccumulation: not applicable.
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Other information	: No other effects known. Avoid release to the environment.
SECTION 13: Disposal consideration	ons
13.1. Waste treatment methods	
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to
Ecology - waste materials	: Avoid release to the environment.

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

OF OTION 44.	There are not informed to a	
SECTION 14:	Transport information	

SECTION 14: Transport information	
In accordance with DOT	
Transport document description	: UN1760 Corrosive liquids, n.o.s., 8, II
UN-No.(DOT)	: 1760
DOT NA no.	: UN1760
DOT Proper Shipping Name	: Corrosive liquids, n.o.s.
Department of Transportation (DOT) Hazard Classes	: 8 - Class 8 - Corrosive material 49 CFR 173.136
Hazard labels (DOT)	: 8 - Corrosive
	8
DOT Symbols	: G - Identifies PSN requiring a technical name
Packing group (DOT)	: II - Medium Danger
	 B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized.
	 IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T11 - 6 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 1L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 30 L
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
Additional information	
Other information	: Less than 32 ounces ORMD, greater than 32 ounces UN1760.
ADR Transport document description	:
Transport by sea No additional information available	
A in the second	

Air transport

No additional information available

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

5.1. US Federal regulations	
sodium hydroxide (1310-73-2)	
Listed on the United States TSCA (Toxic Substar	ices Control Act) inventory
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	1000 lb

CANADA

RT310V Venom Pack Brightener	
WHMIS Classification	Class E - Corrosive Material
	Class D Division 2 Subdivision B - Toxic material causing other toxic effects

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC or 1999/45/EC Not classified

15.2.2. National regulations

No additional information available

15.3. US State regulations

sodium hydroxide (1310-73-2)

U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Other information

: None.

Full text of H-phrases: see section 16:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Aquatic Acute 3	Hazardous to the aquatic environment — AcuteHazard, Category 3
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H402	Harmful to aquatic life

NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.	0
NFPA fire hazard	: 0 - Materials that will not burn.	
NFPA reactivity	 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently. 	
NFPA specific hazard	: None	\checkmark

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 0 Minimal Hazard
Physical	: 1 Slight Hazard

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product