

Safety Data Sheet

Quip makes it safe. Simply and Sensibly.

Creation Date: 8-Mar-2015 Revision Date: 23-July-2013 Revision Number: Rev 1

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

1.1. Product identifier

Product Description: VIGOR MOD

Product ID: VIGOR

Common Name: Enzyme-Based Low Foam Spray
Chemical Name: Enzyme-Based Low Foam Spray

Formula: Chemical Mixture

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

Recommended Use Industrial Spray Cleaner

Uses advised against Not Available

1.3. Details of the supplier of the safety data sheet

Company Quip Laboratories, Inc.

1500 Eastlawn Avenue Wilmington, DE 19802 thidell@quiplabs.com

Emergency telephone number

E-mail address

1.4.

For information US call: 001-302-761-2600

Emergency Number CHEMTREC Tel. No.US:001-800-424-9300

2.1. Classification of the substance or mixture



Signal Word

Warning

CLP Classification - Regulation (EC) No 1272/2008

Physical hazards

Based on available data, the classification criteria are not met

Health hazards

Serious Eye Damage/Eye Irritation: Category 2

Environmental hazards

Based on available data, the classification criteria are not met

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

2.2. Label elements

Hazard Statements

H319 - Causes serious eye irritation

Precautionary Statements

P264 - Wash face, hands and any exposed skin thoroughly after handling

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

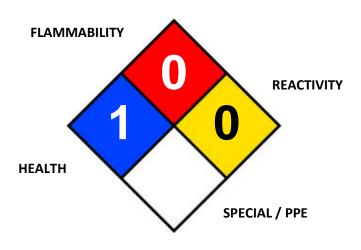
P337 + P313 - If eye irritation persists: Get medical advice/ attention

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection

Product ID: VIGOR

2.3. Other hazards

Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB)



Component	Weight %	CAS No.
Water	To q.s.	7732-18-5
Protease Enzyme	1.0 - 3.0	9014-01-1
Propylene Glycol	5.0 - 10.0	57-55-6
Sodium Xylene Sulfonate	10.0 - 15.0	1300-72-7
Monoethanolamine	1.0 - 3.0	141-43-5
Triethanolamine	1.0 - 3.0	102-71-6
Sodium Sulfite	1.0 - 3.0	7757-83-7

Reach Registration Number ---

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

4.1. Description of first aid measures

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Vigor MOD SAFETY DATA SHEET

Product ID: VIGOR

Skin Contact Wash off immediately with plenty of water for at least 15 minutes.

Obtain medical attention.

Ingestion Do not induce vomiting. Obtain medical attention.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Obtain medical

attention.

Protection of First-aiders Ensure that medical personnel are aware of the material(s) involved,

take precautions to protect themselves and prevent spread of

contamination

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

No information available

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

Notes to Physician Treat symptomatically

5.1. Extinguishing media

Suitable Extinguishing Media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media which must not be used for safety reasons:

No information available.

5.2. Special hazards arising from the substance or mixture

No information available.

Hazardous Combustion Products:

Carbon monoxide (CO), Carbon dioxide (CO2).

5.3. Advice for firefighters

Product ID: VIGOR

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment.

6.2. Environmental precautions

Should not be released into the environment.

6.3. Methods and material for containment and cleaning up

Collect spillage and collect in suitable container for disposal.

6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

7.1. Precautions for safe handling

Wear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

Use in industrial applications

8.1. Control parameters

Exposure limits

List source(s):

Biological limit values:

Product ID: VIGOR

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Component	STD	TV	VA	S	ΓEL	Notes
Protease Enzyme	WEL					
Propylene Glycol	WEL					
Sodium Xylene	WEL					
Sulfonate						
Monoethanolamine	WEL	3 ppm		3 ppm		
Triethanolamine	WEL					
Sodium Sulfite	WEL					

WEL = Workplace Exposure Limit

Ingredient Comments

STEL = Short Term Exposure

TWA = Time Weighted Average

8.2. Exposure controls

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice

Engineering Measures: Ensure that eyewash stations and safety showers are close to the

workstation location. Ensure adequate ventilation, especially in

confined areas

Personal protective equipment





Eye Protection: Safety glasses with side-shields or face shield **Hand Protection:** Protective gloves. Polyvinyl chloride (PVC)

Skin and body protection: Wear appropriate protective gloves and clothing to prevent skin

exposure

Respiratory Protection: Follow the OSHA respirator regulations found in 29 CFR

1910.134 or European Standard EN 149. Use a NIOSH/MSHA or

Vigor MOD SAFETY DATA SHEET

Product ID: VIGOR

European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are

experienced

Hygiene Measures: Handle in accordance with good industrial hygiene and safety

practice

Environmental exposure controls : No information available.

9.1. Information on basic physical and chemical properties

AppearanceClearPhysical StateLiquidOdorBland Odor

Odor Threshold No data available

pH (10% soln.) 9.5 - 10.5

Melting Point/RangeNo data availableSoftening PointNo data availableBoiling Point/RangeGreater than 220°FFlash PointNo data available

Evaporation RateNo information available **Flammability (solid,gas)**No information available.

Explosion LimitsNo data available.Vapor PressureNo data availableVapor DensityNot applicableSpecific Gravity / Density1.070 - 1.080Bulk DensityNo data available

Water Solubility Soluble

Solubility in other solventsNo information available.

Partition Coefficient (n- octanol/water)No data availableAutoignition TemperatureNo data availableDecomposition temperatureNo data availableViscosityNo data availableExplosive Properties Oxidizing PropertiesNo data available

9.2. Other information

Molecular Formula Not Available

Product ID: VIGOR

Molecular Weight Not Available

10.1. Chemical stability

Stable under normal conditions.

10.2. Possibility of hazardous reactions

Hazardous Polymerization: Hazardous polymerization does not occur.

Hazardous Reactions:None under normal processing.

10.3. Materials to avoid

Chlorine containing compounds

10.4. Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

10.5. Hazardous decomposition products

None known

11.1. Information on toxicological effects

(a) acute toxicity;

Oral Based on available data, the classification criteria are not met
Dermal Based on available data, the classification criteria are not met
Inhalation Based on available data, the classification criteria are not met

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Protease Enzyme	>2000 mg/kg (Rat)		
Propylene Glycol	18,500 mg/kg (Rat)		
Sodium Xylene Sulfonate	2500 mg/kg (Rat)		
Monoethanolamine	1720 mg/kg (Rat)		
Triethanolamine	2200 mg/kg (Rat)		
Sodium Sulfite	820 mg/kg (Rat)		

SAFETY DATA SHEET

Vigor MOD
Product ID: VIGOR

(b) skin corrosion/irritation; Based on available data, the classification criteria are not met

(c) serious eye damage/irritation; Category 2

(d) respiratory or skin sensitization;

Respiratory Based on available data, the classification criteria are not met Skin Based on available data, the classification criteria are not met

(e) germ cell mutagenicity; Based on available data, the classification criteria are not met

(f) carcinogenicity; Based on available data, the classification criteria are not met

There are no known carcinogenic chemicals in this product

(g) reproductive toxicity; Based on available data, the classification criteria are not met
 (h) STOT-single exposure; Based on available data, the classification criteria are not met

(i) STOT-repeated exposure; Based on available data, the classification criteria are not met

Target Organs Skin, Respiratory system, Eyes

(j) aspiration hazard; Not applicable Solid

Other Adverse Effects See actual entry in RTECS for complete information The

toxicological properties have not been fully investigated.

Symptoms / effects, both acute and delayed No information available.

12.1. Toxicity

Ecotoxicity effects

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Protease Enzyme	Fish:			
	LC50 > 100			
	mg/l/24h			
Propylene Glycol	Goldfish:			
	LC50 > 5000			
	mg/l/24h			
Sodium Xylene Sulfonate				
Monoethanolamine				
Triethanolamine				
Sodium Sulfite				

12.2. Persistence and degradability

Product is biodegradable

Persistence:

Soluble in water, Persistence is unlikely, based on

information available.

SAFETY DATA SHEET

Vigor MOD

Product ID: VIGOR

12.3. Bioaccumulative potential Bioaccumulation is unlikely

12.4. Mobility in soil The product is water soluble, and may spread in water

systems. Will likely be mobile in the environment due

to its water solubility. Highly mobile in soils.

12.5. Results of PBT and vPvB assessment Substance is not considered persistent, bioaccumulative

And toxic (PBT) / very persistent and very

Bioaccumulative (vPvB).

12.6. Other adverse effects

Endocrine Disruptor Information This product does not contain any known or suspected

endocrine disruptors

Persistent Organic Pollutant This product does not contain any known or suspected

substance

Ozone Depletion Potential This product does not contain any known or suspected

substance

13.1. Waste treatment methods

Federal, state and local disposal laws and regulations will determine the proper waste disposal/recycling/reclamation/treatment procedure. Disposal requirements are dependent on the hazard classification and will vary by location and the type of disposal selected. All waste materials should be reviewed to determine the applicable hazards (testing may be necessary).

IMDG/IMO Not regulated

14.1.UN number:Not regulated14.2.Proper shipping name:Not regulated14.3.Transport hazard class(es):Not regulated14.4.Packing group:Not Applicable

ADR Not regulated

Product ID: VIGOR

14.1.UN number:Not regulated14.2.Proper shipping name:Not regulated14.3.Transport hazard class(es):Not regulated14.4.Packing group:Not Applicable

IATA Not regulated

14.1.UN number:Not regulated14.2.Proper shipping name:Not regulated14.3.Transport hazard class(es):Not regulated14.4.Packing group:Not Applicable

14.5. Environmental hazards No hazards identified

14.6. Special precautions for user
 14.7. Transport in bulk according
 No special precautions required
 Not applicable, packaged goods

to Annex II of MARPOL73/78 and

the IBC Code

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

US FEDERAL REGULATIONS:

TSCA: In TSCA (Toxic Substances Control Act)

SARA 311 and 312 HAZARD CATEGORIES:

Immediate (Acute): Yes Delayed (Chronic): No Fire: No

Reactivity: No Sudden Release of Pressure: No

SARA SECTION 313 NOTIFICATION:

This product does not contain toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

CAA 602 OZONE DEPLETING SUBSTANCES (ODS):

This product neither contains nor is manufactured with an ozone depleting substance subject to the labeling requirements of the Clean Air Act Amendments 1990 and 40 CFR Part 82.

VOLATILE ORGANIC COMPOUNDS (VOC): Not Applicable.

Product ID: VIGOR

US STATE REGULATIONS:

VOLATILE ORGANIC COMPOUNDS (CARB): Not Applicable.

CANADIAN REGULATIONS: N/A

DSL/NDSL: N/A

WHMIS CLASSIFICATION: N/A

Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment.

Take note of Dir 94/33/EC on the protection of young people at work.

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been completed.

Full text of R-phrases referred to under sections 2 and 3

R36 - Irritating to eyes

Full text of H-Statements referred to under sections 2 and 3

H319 - Causes serious eye irritation

Legend

CAS - Chemical Abstracts Service

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Existing and Evaluated Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

ENCS - Japan Existing and New Chemical Substances AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

WEL - Workplace Exposure Limit

ACGIH - American Conference of Industrial Hygiene

DNEL - Derived No Effect Level

Product ID: VIGOR

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

PNEC - Predicted No Effect Concentration

RPE - Respiratory Protective Equipment

LD50 - Lethal Dose 50%

LC50 - Lethal Concentration 50%

NOEC - No Observed Effect Concentration

PBT - Persistent, Bioaccumulative, Toxic

EC50 - Effective Concentration 50%

POW - Partition coefficient Octanol:Water

vPvB - very Persistent, very Bioaccumulative

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

MARPOL - International Convention for the Prevention of Pollution from Ships

OECD - Organisation for Economic Co-operation and Development ATE - Acute Toxicity Estimate

BCF - Bioconcentration factor

VOC - Volatile Organic Compounds

Key literature references and sources for data

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

The information in this Material Safety Data Sheet should be provided to all who use, handle, transport, or otherwise are exposed to this product. This information has been prepared for the guidance of plant engineering, operations, management and persons working with or handling this product. The information presented in this MSDS is premised upon proper handling and anticipated uses, and is for the material without chemical additions/alterations. Additionally, if this Material Safety Data Sheet is more than three years old, please contact this supplier at the phone number above Section 1 to make sure this sheet is current.

SAFETY DATA SHEET

Vigor MOD Product ID: VIGOR

PREPARED BY: T. Hidell DATE: 3/8/2015

Supercedes: 7/23/2013

The information and recommendations contained herein are based upon data believed to be correct. No warranty, expressed or implied, is made.