

SAFETY DATA SHEET

1. Identification

Product identifier: Chemical Guys TVDSPRAY103 Cling On High Gloss Tire Foam

Other means of identification

SDS number: RE1000036076

Recommended restrictions

Product use: Cleaner Restrictions on

use: Not known.

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: Chemical Guys
Address: 14108 S. Western Ave

Gardena, CA 90249

Telephone: Fax: 866-822-3670

Emergency telephone number: 1-866-836-8855

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable aerosol Category 1

Label Elements

Hazard Symbol:



Signal Word: Hazard Danger

Statement: Extremely flammable aerosol.

Precautionary Statements

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking. Do not spray on an open flame or other ignition source. Do not pierce or

burn, even after use.

SDS_US - RE1000036076 1/15



Storage: Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°

F.

Hazard(s) not otherwise classified (HNOC):

None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Butane	106-97-8	1-<5%
Propane	74-98-6	1-<5%
Sodium nitrite, Nitrous acid, sodium salt (1:1)	7632-00-0	0.1 - <1%
Morpholine	110-91-8	0.1 - <1%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Ingestion: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

Inhalation: Skin Move to fresh air.

Contact: Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/

attention.

Eye contact:Any material that contacts the eye should be washed out immediately with water. If

easy to do, remove contact lenses. If eye irritation persists: Get medical advice/

attention.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: No data available.

5. Fire-fighting measures

General Fire Hazards: Use water spray to keep fire-exposed containers cool. Fight fire from a protected

location. Move containers from fire area if you can do so without risk.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

SDS_US - RE1000036076 2/15



Unsuitable extinguishing

media:

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical:

Vapors may travel considerable distance to a source of ignition and flash back.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No data available.

Special protective equipment for

fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces,

SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind.

Methods and material for containment and cleaning up:

Stop the flow of material, if this is without risk. Absorb with sand or other inert absorbent.

absorbent.

Notification Procedures:

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Stop leak if you can do so without risk.

Environmental Precautions:

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of

all major spillages.

7. Handling and storage

Precautions for safe handling:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C.

Conditions for safe storage, including any incompatibilities: Do not pierce or burn, even after use. Aerosol Level 1

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

<u>ccupational Exposure Lir</u>	nits				
Chemical Identity	Туре	Exposure Limit Values		Source	
Butane	REL	800 ppm	1,900 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)	
	TWA	800 ppm	1,900 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table 71A (06 2008)	
	STEL	1,000 ppm		US. ACGIH Threshold Limit Values (03 2018)	
	TWA	800 ppm	1,900 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)	
	AN ESL		3,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)	
	AN ESL		7,100 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)	

SDS_US - RE1000036076 3/15



	TWA PEL	800 ppm	1,900 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	ST ESL		66,000 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL		28,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Propane	REL	1,000 ppm	1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	1,000 ppm	1,800 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA PEL	1,000 ppm	1,800 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	TWA	1,000 ppm	1,800 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	TWA	1,000 ppm	1,800 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Morpholine	REL	20 ppm	70 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	20 ppm		US. ACGIH Threshold Limit Values (2008)
	ST ESL		36 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	PEL	20 ppm	70 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA PEL	20 ppm	70 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	STEL	30 ppm	105 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	AN ESL		11 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL		10 ppb	US. Texas. Effects Screening Levels (Texas
	TWA	20 ppm	70 mg/m3	Commission on Environmental Quality) (11 2016) US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	30 ppm	105 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	30 ppm	105 mg/m3	US. Tennessee. OELs. Occupational Exposure
	STEL	30 ppm	105 mg/m3	Limits, Table Z1A (06 2008) US. California Code of Regulations, Title 8, Section
	AN ESL		40 μg/m3	5155. Airborne Contaminants (09 2006) US. Texas. Effects Screening Levels (Texas
	TWA	20 ppm	70 mg/m3	Commission on Environmental Quality) (11 2016) US. Tennessee. OELs. Occupational Exposure
Benzene, dimethyl-	STEL	150 ppm	655 mg/m3	Limits, Table Z1A (06 2008) US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
•	STEL	150 ppm	655 mg/m3	US. California Code of Regulations, Title 8, Section
	TWA PEL	100 ppm	435 mg/m3	5155. Airborne Contaminants (09 2006) US. California Code of Regulations, Title 8, Section
			· ·	5155. Airborne Contaminants (09 2006)
	TWA	100 ppm	435 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	100 ppm		US. ACGIH Threshold Limit Values (2008)
	Ceiling	300 ppm		US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	TWA	100 ppm	435 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	STEL	150 ppm	655 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	REL	100 ppm	435 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2016)
<u> </u>	ST ESL		510 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	PEL	100 ppm	435 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	STEL	150 ppm		US. ACGIH Threshold Limit Values (2008)
	AN ESL		41 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL		2,200 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	STEL	150 ppm	655 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2016)
	AN ESL		180 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Ethanol, 2-methoxy-	TWA	0.1 ppm	0.0	US. ACGIH Threshold Limit Values (2008)
	REL	0.1 ppm	0.3 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards

SDS_US - RE1000036076 4/15



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	TWA	25 ppm	80 mg/m3	(2005) US. Tennessee. OELs. Occupational Exposure Limits, Table
				71A (06 2008)
	TWA	25 ppm	80 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA PEL	5 ppm	16 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	ST ESL		50 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL		16 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	PEL	25 ppm	80 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	AN ESL		5 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL		160 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
1.2-Ethanediamine	TWA	10 ppm	05 / 7	US. ACGIH Threshold Limit Values (2008)
	TWA PEL	10 ppm	25 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	PEL	10 ppm	25 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	10 ppm	25 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	AN ESL		25 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL		100 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL		10 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	REL	10 ppm	25 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	ST ESL		250 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	TWA	10 ppm	25 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table 71A (06 2008)
Morpholine, 4-ethyl-	REL	5 ppm	23 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	5 ppm	23 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	5 ppm	23 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	TWA PEL	5 ppm	23 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	PEL	20 ppm	94 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	AN ESL		24 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	TWA	5 ppm		US. ACGIH Threshold Limit Values (2008)
	AN ESL		5.1 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL		51 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL		240 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Sodium hydroxide (Na(OH))	Ceiling Ceiling		2 mg/m3	US. ACGIH Threshold Limit Values (2008)
	Ceiling		2 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	Ceil_Time		2 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL		2 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	Ceiling		2 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table 71A (06 2008)
	Ceiling		2 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
Sodium hydroxide (Na(OH)) - Particulate.	AN ESL		2 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL		20 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Proprietary	TWA	20 ppm		US. ACGIH Threshold Limit Values
Benzene	REL	0.1 ppm		US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	1 ppm		US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

SDS_US - RE1000036076 5/15



Ceiling	25 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
ocining	20 ррпп		00. 0011A Table 2 2 (20 01 K 1010.1000) (02 2000)
STEL	1 ppm		US. NIOSH: Pocket Guide to Chemical Hazards (2005)
TWA A LV	0.5 ppm		US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
AN ESL		1.4 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
TWA	0.5 ppm		US. ACGIH Threshold Limit Values (2008)
STEL	25 ppm		US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
STEL	5 ppm		US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
TWA	1 ppm		US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)
STEL	5 ppm		US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
TWA PEL	1 ppm		US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
ST ESL		170 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
TWA	10 ppm		US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
ST ESL		53 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
STEL	2.5 ppm		US. ACGIH Threshold Limit Values (2008)
STEL	5 ppm		US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)
OSHA_ACT	0.5 ppm	·	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)
TWA	10 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
MAX. CONC	50 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
AN ESL		4.5 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Ceiling	50 ppm		US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)

Biological Limit Values

Chemical Identity	Exposure Limit Values	Source	
Benzene, dimethyl- (Methylhippuric acids: Sampling time: End of shift.)	1.5 g/g (Creatinine in urine)	ACGIH BEL (03 2013)	
Ethanol, 2-methoxy- (2-Methoxyacetic acid: Sampling time: End of shift at end of work week.)	1 mg/g (Creatinine in urine)	ACGIH BEL (03 2013)	
Benzene (t,t-Muconic acid: Sampling time: End of shift.)	500 μg/g (Creatinine in urine)	ACGIH BEL (03 2013)	
Benzene (S-Phenylmercapturic acid: Sampling time: End of shift.)	25 μg/g (Creatinine in urine)	ACGIH BEL (03 2013)	

Appropriate Engineering Controls

No data available.

Individual protection measures, such as personal protective equipment

General information: Use personal protective equipment as required. Personal protection equipment should

be chosen according to the CEN standards and in discussion with the supplier of the

personal protective equipment.

Eye/face protection: Wear goggles/face shield.

Skin Protection

Hand Protection: No data available.

SDS_US - RE1000036076 6/15



Other: No data available.

Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

When using do not smoke. Observe good industrial hygiene practices.

Hygiene measures:

9. Physical and chemical properties

Appearance

Physical state: liquid

Form: Spray Aerosol No data
Color: available. No data
Odor: available. No data
Odor threshold: available. No data
pH: available. No data
Melting point/freezing point: available. No data

Initial boiling point and boiling range: available. Flash Point: - $104.44^{\circ}C$

Evaporation rate: Flammability No data available. No

(solid, gas): data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%): Explosive

No data available.

No data available.

No data available.

Vapor pressure: 3,447.3786 - 4,136.8544 hPa (20 °C) 744.6276 -

882.5216 hPa (50 °C)

Vapor density:No data available. NoDensity:data available. No data

Relative density: available.

Solubility(ies)

Solubility in water: No data available. No Solubility (other): data available. No data

Partition coefficient (n-octanol/water): available.

Auto-ignition temperature: Decomposition No data available. No temperature: Viscosity: data available. No data

available.

10. Stability and reactivity

Reactivity: No data available.

Chemical Stability: PossibilityMaterial is stable under normal conditions. No data

of hazardous available.

reactions:

SDS_US - RE1000036076 7/15



Conditions to avoid: Incompatible Avoid heat or contamination. No

Materials: Hazardous data available.

Decomposition No data available.

Products:

11. Toxicological information

Information on likely routes of exposure

Inhalation: No data available.

Skin Contact: Eye No data available. No

contact: data available.

Ingestion: No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: Skin No data available. No

Contact: Eye data available. No

contact: data available. No

Ingestion: data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: ATEmix: 53,823.55 mg/kg

Dermal

Product: ATEmix: 150,684.63 mg/kg

Inhalation

Product: Not classified for acute toxicity based on available data.

Specified substance(s):

Butane LC 50 (Mouse): 1,237 mg/l

Propane LC 50 (Mouse): 1,237 mg/l

Sodium nitrite, Nitrous

acid, sodium salt (1:1)

LC 0 (Rat): 0.0951 mg/l

Morpholine LC 0 (Rat): 24 mg/l

LC 50: > 24 mg/l LC 50: > 5 mg/l

Repeated dose toxicity

Product: No data available.

Specified substance(s):

Butane NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation Experimental

result, Key study

SDS_US - RE1000036076 8/15





LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation Experimental result, Key

study

Propane NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation Experimental result, Key

study

LOAÉL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation Experimental result, Key

study

Sodium nitrite, Nitrous acid,

sodium salt (1:1)

NOAEL (Rat(Male), Oral, 2 yr): 10 mg/kg Oral Experimental result, Supporting study

LOAEL (Rat(Male), Oral, 14 Weeks): 115 mg/kg Oral Experimental result, Weight of Evidence study NOAEL (Rat(Female, Male), Inhalation): 36 ppm(m) Inhalation Experimental result, Key study

LOAEL (Rat(Female), Oral, 56 d): 500 mg/kg Oral Experimental result, Key study

Morpholine

No data available.

Skin Corrosion/Irritation

Product:

in vivo (Rabbit): Not irritant Experimental result, Weight of Evidence study

Specified substance(s):

Sodium nitrite, Nitrous acid,

sodium salt (1:1)

in vivo (Rabbit): Corrosive Experimental result, Key study

Morpholine

Serious Eye Damage/Eye Irritation

Product: No data available.

Respiratory or Skin Sensitization

Product: No data available.

Specified substance(s):

Morpholine Skin sensitization:, in vivo (Guinea pig): Non sensitising

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: No data available.

SDS_US - RE1000036076 9/15



Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: No data available. No

Other effects: data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Butane LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study LC 50 (Various, 96 h):

Propane 147.54 mg/l QSAR QSAR, Key study

Sodium nitrite, Nitrous acid,

sodium salt (1:1)

LC 50 (Oncorhynchus mykiss, 96 h): 0.54 - 26.3 mg/l Experimental result, Key study

LC 50 (Oncorhynchus mykiss, 96 h): 180 mg/l Experimental result, Key study

Morpholine

No data available.

Aquatic Invertebrates

Product:

LC 50 (Daphnia sp., 48 h): 69.43 mg/I QSAR QSAR, Key study

Specified substance(s):

Butane EC 50 (Daphnia magna, 48 h): 15.4 mg/l Experimental result, Key study

Sodium nitrite, Nitrous acid,

sodium salt (1:1)

EC 50 (Daphnia magna, 48 h): 45 mg/l Experimental result, Key study

Morpholine

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Sodium nitrite, Nitrous acid, sodium salt (1:1)

NOAEL (Cyprinus carpio): 1.05 mg/l Experimental result, Key study

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Sodium nitrite, Nitrous NOAEL (Penaeus monodon): 2 mg/l Experimental result, Key study

SDS_US - RE1000036076 10/15





acid, sodium salt (1:1) EC 50 (Penaeus monodon): 114.9 mg/l Experimental result, Key study LC 50 (Penaeus

monodon): > 95.6 mg/l Experimental result, Key study

Morpholine EC 50 (Daphnia magna): 12 mg/l Experimental result, Key study NOAEL (Daphnia magna): 5

mg/I Experimental result, Key study

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s):

Butane 100 % (385.5 h) Detected in water. Experimental result, Key study

50 % (3.19 d) Detected in water. QSAR, Weight of Evidence study

Propane 100 % (385.5 h) Detected in water. Experimental result, Key study

50 % (3.19 d) Detected in water. QSAR, Weight of Evidence study

Morpholine > 90 % (24 h) Sediment Experimental result, Key study 80 - 94 % (24 h)

Sediment Experimental result, Key study 34.1 % Detected in water.

Experimental result, Key study

> 99 % (24 h) Sediment Experimental result, Key study

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Specified substance(s):

Morpholine Cyprinus carpio, Bioconcentration Factor (BCF): < 2.8 Aquatic sediment Experimental result,

Key study

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Butane No data available. No Propane data available. No data

Sodium nitrite, Nitrous acid, sodium

available.

salt (1:1) Morpholine

No data available.

Other adverse effects: No data available.

13. Disposal considerations

Disposal instructions: Wash before disposal. Dispose to controlled facilities. No data

Contaminated Packaging: SDS_US available.

- RE1000036076



14. Transport information

DOT

UN Number: UN 1950

UN Proper Shipping Name: Transport Aerosols, flammable

Hazard Class(es)

Class: 2.1
Label(s): Packing Group: II
Marine Pollutant: No

Environmental Hazards: Marine No Pollutant No

Special precautions for user: Not regulated.

IMDG

UN Number: UN 1950

UN Proper Shipping Name: Aerosols, flammable

Transport Hazard Class(es)

Class: 2 Label(s): -EmS No.:

Packing Group:

Environmental Hazards: Marine No Pollutant No

Special precautions for user:

IATA

UN Number: UN 1950

Proper Shipping Name: Transport Aerosols, flammable

Not regulated.

Hazard Class(es):

Class: 2.1
Label(s): Packing Group: -

Environmental Hazards: Marine No Pollutant No

Special precautions for user: Not regulated.

15. Regulatory information

US Federal Regulations

Restrictions on use: Not known.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Chemical Identity OSHA hazard(s)

SDS_US - RE1000036076 12/15



Benzene respiratory tract irritation

Central nervous system Blood

Skin

Flammability Cancer Aspiration Eye

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity Butane	Reportable quantity
Propane	lbs. 100
Sodium nitrite, Nitrous acid,	lbs. 100
sodium salt (1:1) Morpholine	lbs. 100
Benzene, dimethyl- 1,2-	
Ethanediamine Morpholine,	lbs. 100
4-ethyl- Sodium hydroxide	lbs. 100
(Na(OH))	lbs. 5000
Benzene	lbs. 100
	lbs. 1000

lbs. 10

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Fire Hazard Flammable aerosol

SARA 302 Extremely Hazardous Substance

<u>Reportable</u>

Chemical Identityquantity 1,2-Threshold Planning Quantitylbs.Ethanediaminelbs. 500010000

SARA 304 Emergency Release Notification

Ann do i Emorgoney noioudo notinidution						
Chemical Identity Butane			Reportable quantity			
Propane			lbs.	100		
Sodium	nitrite,	Nitrous acid,	lbs.	100		
sodium sa	alt (1:1) Mo	lbs. 100				
Benzene,	dimethyl-	Ethanol, 2-				
methoxy-			lbs. 100			
1,2-Ethanediamine Morpholine, 4-			lbs. 100			
ethyl-		·				
•			lbs. 5	5000		
			lbs. 1	00		
Sodium		hydroxide	lbs. 1	000		
(Na(OH))		,				
Benzene			lbs. 1	0		

SARA 311/312 Hazardous Chemical

<u>Chemical Identity</u> 1,2<u>Threshold Planning Quantity</u>

Ethanediamine Butane lbs

Propane 10000 lbs Sodium nitrite, Nitrous acid, 10000 lbs sodium salt (1:1) Morpholine 10000 lbs

10000 lbs

SDS_US - RE1000036076 13/15



Benzene, dimethyl-10000 lbs Ethanol, 2-methoxy-10000 lbs Morpholine, 4-ethyl-10000 lbs Sodium hydroxide 10000 lbs (Na(OH)) Proprietary

Benzene 10000 lbs

10000 lbs

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

US State Regulations

US. California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

Ethanol, 2-methoxy-Developmental toxin. 03 2008 Male Ethanol, 2-methoxyreproductive toxin. 03 2008 Benzene Developmental toxin. 03 2008 Benzene Carcinogenic. 05 2011

Benzene Male reproductive toxin. 03 2008

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

Butane Propane

US. Massachusetts RTK - Substance List

Chemical Identity 1,2-

Ethanediamine

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Butane Propane

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

SDS_US - RE1000036076 14/15



Inventory Status:

Australia AICS: Not in compliance with the inventory.

Canada DSL Inventory List: Not in compliance with the inventory.

EINECS, ELINCS or NLP: Not in compliance with the inventory.

Japan (ENCS) List: Not in compliance with the inventory.

China Inv. Existing Chemical Substances: Not in compliance with the inventory.

Korea Existing Chemicals Inv. (KECI): Not in compliance with the inventory.

Canada NDSL Inventory: Not in compliance with the inventory.

Philippines PICCS: Not in compliance with the inventory.

US TSCA Inventory: On or in compliance with the inventory

New Zealand Inventory of Chemicals:

Not in compliance with the inventory.

Japan ISHL Listing: Not in compliance with the inventory.

Japan Pharmacopoeia Listing:

Not in compliance with the inventory.

Mexico INSQ: Not in compliance with the inventory.

Ontario Inventory: Not in compliance with the inventory.

Taiwan Chemical Substance Inventory: Not in compliance with the inventory.

16.Other information, including date of preparation or last revision

Issue Date: 08/09/2019

Revision Information: VersionNo data available.

#: 1.0

Further Information: Disclaimer: No data available.

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard

workers and the environment.