# SAFETY DATA SHEET

# 1. Identification

**Product number** ID12AA

**Product identifier** 19 OZ HEAVY DUTY INDUSTRIAL FOAMING CLNR

**Revision date Company information** K-CHEM INC. P. O. Box 530632

BIRMINGHAM, AL 35253 United States

Company phone General Assistance 205-592-0844

**Emergency telephone US** 1-800-255-3924 **Emergency telephone outside** 1-813-248-0585

Version # 04

Supersedes date 02-20-2015 Recommended use **CLEANER Recommended restrictions** None known.

# 2. Hazard(s) identification

Physical hazards Flammable aerosols Category 1 Health hazards Skin corrosion/irritation Category 2

**Environmental hazards** Not classified. **OSHA** defined hazards Not classified.

Label elements



Danger Signal word

**Hazard statement** Extremely flammable aerosol. Causes skin irritation.

**Precautionary statement** 

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open

flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

Wash thoroughly after handling. Wear protective gloves.

Response If on skin: Wash with plenty of water. Specific treatment (see this label). If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

**Storage** Protect from sunlight. Do not expose to temperatures exceeding

50°C/122°F. Not available. **Disposal** 

Hazard(s) not otherwise

classified (HNOC)

None known.

**Supplemental information** None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Butane		106-97-8	2.5 - 10
Disodium Metasilicate		6834-92-0	1 - 2.5
Polyethylene Glycol Octylphenyl Ether		9036-19-5	1 - 2.5
Propane		74-98-6	1 - 2.5

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Chemical name	Common name and synonyms	CAS number	%
Trisodium Phosphate		10101-89-0	1 - 2.5
2-Butoxyethanol		111-76-2	0.1 - 1
Other components below reportable le	vels		80 - 90

<sup>#:</sup> This substance has workplace exposure limit(s).

#### 4. First-aid measures

Inhalation

If inhalation of gas/fume/vapor/dust/mist from the material is excessive (air concentration is greater than the TLV or health effects are noticed), immediately remove the affected person(s) to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Call a physician or Poison Control Center immediately. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician if symptoms develop or persist.

Skin contactCall a physician or Poison Control Center immediately.Eye contactCall a physician or Poison Control Center immediately.IngestionRinse mouth. Get medical attention if symptomsMost importantoccur. Skin irritation. May cause redness and pain.

symptoms/effects, acute and delayed

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Immediate medical attention is required. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

**General information** 

Not available.

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

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame.

Special protective equipment and precautions for firefighters

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

Fire-fighting equipment/instructions

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.

General fire hazards

Extremely flammable aerosol.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. If possible, turn leaking containers so that gas escapes rather than liquid. Isolate area until gas has dispersed. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

## **Environmental precautions**

Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

# 7. Handling and storage

#### Precautions for safe handling

Will ignite if exposed to intensive heat or open air. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not get this material on clothing. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

# Conditions for safe storage, including any incompatibilities

Level 1 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

#### Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
2-Butoxyethanol (CAS 111-76-2)	PEL	240 mg/m3	
		50 ppm	
Propane (CAS 74-98-6)	PEL	1800 mg/m3	
		1000 ppm	
US. ACGIH Threshold Limit Valu	ies		
Components	Туре	Value	
2-Butoxyethanol (CAS 111-76-2)	TWA	20 ppm	
Butane (CAS 106-97-8)	STEL	1000 ppm	
US. NIOSH: Pocket Guide to Che	emical Hazards		
Components	Туре	Value	
2-Butoxyethanol (CAS 111-76-2)	TWA	24 mg/m3	
		5 ppm	
Butane (CAS 106-97-8)	TWA	1900 mg/m3	
		800 ppm	
Propane (CAS 74-98-6)	TWA	1800 mg/m3	
·		1000 ppm	

## **Biological limit values**

**ACGIH Biological Exposure Indices** 

Components	Value	Determinant	Specimen	Sampling Time
2-Butoxyethanol (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*

<sup>\* -</sup> For sampling details, please see the source document.

#### **Exposure guidelines**

US - California OELs: Skin designation

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

2-Butoxyethanol (CAS 111-76-2) Skin designation applies.

**US - Tennesse OELs: Skin designation** 

2-Butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

2-Butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.

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# Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

## Individual protection measures, such as personal protective equipment

Eye/face protection Wear tight-fitting goggles or face shield. Face shield is recommended. Wear safety glasses with

sideshields (or goggles).

Hand protection

Wear appropriate chemical resistant gloves.

Skin protection

Other Wear chemical protective equipment that is specifically recommended by the manufacturer. Use

of an impervious apron is recommended. It may provide little or no thermal protection.

Skin protection

an air-supplied respirator.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. Do not get in eyes. Do not get this material in contact with skin. Avoid contact with skin. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

**Appearance** 

Physical state Gas.
Form Aerosol.
Color Not available.
Odor Not available.
Odor threshold Not available.
PH Not available.
Melting point/freezing point Not available.

Initial boiling point and boiling 212 °F (100 °C) estimated

range

Flash point -156.0 °F (-104.4 °C) Propellant estimated

Evaporation rate Not available.
Flammability (solid, gas) Not available.
Upper/lower flammability or explosive limits

Flammability limit - lower Not available.

(%)

Flammability limit - upper Not available.

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 60 psig @70F estimated

Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

**Specific gravity** 0.98 estimated

## 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Risk of ignition.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid Exposure to air. Heat, flames and sparks. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Nitrates. Oxygen. Fluorine. Chlorine.

**Hazardous decomposition** 

products

No hazardous decomposition products are known.

# 11. Toxicological information

# Information on likely routes of exposure

Ingestion Expected to be a low ingestion hazard. Inhalation Prolonged inhalation may be harmful.

Skin contact Causes skin irritation.

Eye contact Direct contact with eyes may cause temporary

Symptoms related to the physical, chemical and toxicological characteristics irritation. Skin irritation. May cause redness and pain.

# Information on toxicological effects

# **Acute toxicity**

Components	Species	Test Results
2-Butoxyethanol (CAS 111-7	6-2)	
<b>Acute</b> DERMAL		
LD50	Guinea pig	230 ml/kg, 24 Hours
		7.3 ml/kg, 4 Days
	Rabbit	450 ml/kg, 24 Hours
		435 mg/kg, 24 Hours
		0.63 ml/kg
	Rat	> 2000 mg/kg, 24 Hours
INHALATION		
LC50	Rabbit	400 ppm, 7 Hours
	Rat	450 ppm, 4 Hours
ORAL		
LD100	Rabbit	695 mg/kg
LD50	Dog	> 695 mg/kg
	Guinea pig	1200 mg/kg
	Rat	530 - 2800 mg/kg
Butane (CAS 106-97-8)		
<b>Acute</b> INHALATION		
LC50	Mouse	1237 mg/l, 120 Minutes
		52 %, 120 Minutes
	Rat	1355 mg/l
Disodium Metasilicate (CAS	6834-92-0)	
Acute DERMAL		
LD50	Rat	> 5000 mg/kg, 24 Hours

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Components	Species	Test Results
INHALATION		
LC50	Rat	> 2.06 mg/l, 4 Hours
ORAL		
LD50	Mouse	661.5 - 896.3 mg/kg
	Rat	600 mg/kg
Polyethylene Glycol Octylphei	nyl Ether (CAS 9036-19-5)	
<b>Acute</b> ORAL		
LD50	Rat	4190 mg/kg
Propane (CAS 74-98-6)		
<b>Acute</b> INHALATION		
LC50	Mouse	1237 mg/l, 120 Minutes
		52 %, 120 Minutes
	Rat	1355 mg/l
		658 mg/l/4h
Trisodium Phosphate (CAS 10	0101-89-0)	
Acute ORAL	,	
LD50	Rat	7400 mg/kg

Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Causes skin irritation. Prolonged skin contact may cause temporary irritation. Harmful

Serious eve damage/eve

irritation

in contact with eyes. Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization Skin

sensitization

Not available.

This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

2-Butoxyethanol (CAS 111-76-2) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental

Specific target organ toxicity - single exposure effects. Not classified.

Specific target organ toxicity

- repeated exposure

Not classified.

**Aspiration hazard** 

Not likely, due to the form of the product.

**Chronic effects** Prolonged inhalation may be harmful. Prolonged or repeated exposure may cause lung injury.

12. Ecological information

**Ecotoxicity** Components of this product are hazardous to aquatic life.

**Product Species Test Results** 

19 OZ HEAVY DUTY INDUSTRIAL FOAMING CLNR (CAS Mixture)

Aquatic

Fish LC50 Fish 13176 mg/L, 96 Hours Components Species Test Results

2-Butoxyethanol (CAS 111-76-2)

Aquatic

Fish LC50 Inland silverside (Menidiaberyllina) 1250 mg/l, 96 hours

Polyethylene Glycol Octylphenyl Ether (CAS 9036-19-5)

Aquatic

Fish LC50 Rainbow trout, donaldson trout 7.2 mg/l, 96 hours

(Oncorhynchusmykiss)

\* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

 2-Butoxyethanol
 0.83

 Butane
 2.89

 Propane
 2.36

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

# 13. Disposal considerations

**Disposal instructions**Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate or crush.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Hazardous waste code Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the

waste disposal company.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container

is emptied. Do not re-use empty containers.

14. Transport information

UN number UN1950

UN proper shipping name Transport hazard class(es) Aerosols, flammable, (each not exceeding 1 L capacity)

Class Subsidiary risk Label(s)

Packing group

Special precautions for user

Special provisions Packaging exceptions Packaging non bulk Packaging bulk

DOT

2.1

2.1

2.1

Not applicable.

Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.

N82

306

None

None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20

and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

IATA

UN number UN1950

**UN proper shipping name** Aerosols, flammable

Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not applicable.

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No. Environmental hazards ERG Code 10L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo aircraft

Allowed.

Not applicable.

Allowed. Cargo aircraft only **Packaging Exceptions** LTD QTY

**IMDG** 

UN1950 **UN** number **AEROSOLS** 

**UN proper shipping name** Transport hazard class(es)

> 2.1 Class **Subsidiary** risk Label(s) 2.1

Not applicable. Packing group

**Environmental hazards** 

Marine pollutant No. F-**EmS** D. S-U

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.

LTD QTY

**Packaging Exceptions** Transport in bulk according to Annex II of MARPOL 73/78

and the IBC Code

DOT



IATA; IMDG



# 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard CommunicationStandard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Trisodium Phosphate (CAS 10101-89-0) Listed.

SARA 304 Emergency release notification

Not regulated.

Product name: 19 OZ HEAVY DUTY INDUSTRIAL

## OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

**Hazard categories** Immediate Hazard - Yes

> Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

## SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
1,4-Dioxane	123-91-1	0.01 - 0.1	

# Other federal regulations

# Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Butane (CAS 106-97-8) Propane (CAS 74-98-6)

Safe Drinking Water Act

(SDWA) **US** state regulations Not regulated.

This product does not contain a chemical known to the State of California to cause cancer, birth

defects or other reproductive harm.

# **US. Massachusetts RTK - Substance List**

2-Butoxyethanol (CAS 111-76-2) Butane (CAS 106-97-8) Propané

(CAS 74-98-6)

Trisodium Phosphate (CAS 10101-89-0)

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

2-Butoxyethanol (CAS 111-76-2) Butane (CAS 106-97-8) Propane

(CAS 74-98-6)

#### US. Pennsylvania Worker and Community Right-to-Know Law

2-Butoxyethanol (CAS 111-76-2) Butane (CAS 106-97-8) Propane

(CAS 74-98-6)

Trisodium Phosphate (CAS 10101-89-0)

## **US. Rhode Island RTK**

Butane (CAS 106-97-8) Propane (CAS 74-98-6)

Trisodium Phosphate (CAS 10101-89-0)

## **US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer.

# US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

1,4-Dioxane (CAS 123-91-1) Listed: January 1, 1988

# International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No

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Country(s) or region Inventory name On inventory (yes/no)\*

Korea Existing Chemicals List (ECL) New Zealand New Zealand Inventory No

**Philippines** Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

02-06-2015 Issue date 05-21-2015 **Revision date** 

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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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No

Yes