SAFETY DATA SHEET

Section 1 - Identification

Product Identifier: CITRA BLAST Foaming All Purpose
Other means of identification: 2001
Recommended use: Foaming All Purpose Cleaner
Recommended restrictions: For commercial and industrial use only.

Manufacturer / Importer / Supplier / Distributor Information
Company Name: National Chemical Laboratories of PA, Inc.
Address: 401 N. 10th Street - Philadelphia, PA 19123
Telephone: 1 (215) 922-1200
Supplier Email: info@nclonline.com
Contact: CHEM-TEL
Emergency Phone: 1 (800) 255-3924

OSHA defined hazards: Not Classified.

Section 2 - Hazard(s) Identification

SDS Hazards and Warnings are based on the undiluted product. Refer to diluted SDS for Ready-To-Use Hazards and Warnings.

Physical Hazards
Classification: Not Classified
Gases Under Pressure, Compressed Gas

Health Hazards
Acute toxicity, inhalation: 4
Acute toxicity, oral: 4
Sensitization, skin: 1
Skin corrosion/irritation: 2

OSHA defined hazards: Not Classified.

Label Elements
Hazard Symbol: [Flammable, Corrosive, Poison]

Signal Word: Warning
Hazard Statement: Flammable aerosol. Contains gas under pressure; may explode if heated. Causes eye irritation. Causes skin irritation. May cause an allergic skin reaction. Harmful if swallowed. Harmful if inhaled.

Precautionary statement
Response: IF SWALLOWED: Immediately call a POISON Center or doctor/physician. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Storage: Protect from sunlight. Do not expose to temperatures exceeding 122°F/50°C. Store in a well-ventilated place.
Disposal: Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC): None known.

Section 3 - Composition/Information on ingredients

Mixture

Hazardous Components
Ingredient Name: Diethylene Glycol Monoethyl Ether
CAS #: 111-90-0
%: 4 - 10

Ingredient Name: Amides, coco, N, N-bis(hydroxyethyl)
CAS #: 68603-42-9
%: 1-5

Ingredient Name: Terpenes and Terpenoids, sweet orange-oil
CAS #: 68647-72-3
%: 1 - 5

Ingredient Name: Ethyl Alcohol
CAS #: 64-17-5
%: 1 - 5

Ingredient Name: Liquified Petroleum Gas
CAS #: 68476-86-8
%: 1 - 5

Section 4 - First-aid Measures

CITRA BLAST Foaming All Purpose 2001 Page 1 of 6
SAFETY DATA SHEET

Inhalation
Move to fresh air and keep at rest. Call a physician if symptoms develop and persist.

Skin contact
Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact
Rinse with water. Get medical attention if irritation develops and persists.

Ingestion
Rinse mouth. Do not induce vomiting without advice from poison control center.

Most Important symptoms /effects, acute and delayed
Eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction.

Indication of immediate medical attention and special treatment
Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General Information
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Section 5 - Fire-fighting measures

Suitable extinguishing media
Water fog. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media
None known.

Specific hazards arising from the chemical
Contents under pressure. Containers may explode when heated.

Special protective equipment and precautions for firefighters
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment /instructions
In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. 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.

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. Emergency personnel need self-contained breathing equipment. 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. Isolate area until gas has dispersed. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

Environmental precautions
Avoid discharge into drains, water courses or onto the ground.

Precautions for safe handling
HARMFUL IF INHALED OR SWALLOWED. VAPOR HARMFUL. EYE, SKIN AND RESPIRATORY IRRITANT. 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. Ground and bond containers when transferring material. Do not re-use empty containers. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Keep out of reach of children. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities
Level 1 Aerosol. Contents under pressure. Do not expose to heat or store at temperatures above 122°F/50°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

Section 8 - Exposure control/personal protection

Occupational exposure limits

US. Workplace environmental Exposure Level (WEEL) Guides
Component Type Value
Diethylene Glycol Monoethyl Ether (CAS 111-90-0) TWA 140 mg/m³, 25 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Components Type Value Form
Ethyl Alcohol (CAS 64-17-5) TWA 1900 mg/m³, 1000 ppm Mist
Liqulified Petroleum Gas (CAS 68476-86-8) TWA 1000 ppm

US. ACGIH Threshold Limit Values
Component Type Value Form
Liqulified Petroleum Gas (CAS 68476-86-8) TLV 1000 ppm Mist
Ethyl Alcohol (CAS 64-17-5) STEL 1000 ppm

US. NIOSH: Pocket Guide to Chemical Hazards
SAFETY DATA SHEET

General hygiene considerations
When using do not smoke. 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.

Biological limit values
No biological exposure limits noted for the ingredient(s).

Exposure guidelines
Use personal protective equipment as required. Keep working clothes separately.

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. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection
If use of product risks exposure to contact, wear safety glasses with side shields.

Skin protection
Hand protection
Impervious gloves are recommended for prolonged use.
Other
If use of product risk exposure to contact, wear suitable protective clothing.

Respiratory protection
If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Thermal hazards
Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations
When using do not smoke. 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.

Section 9 - Physical and chemical properties

Appearance
Physical state
Gas/Liquid mixture.
Form
Color
Straw.
Odor
Citrus.
Odor threshold
Not available.

pH
10.8
Melting point/freezing point
Not available.
Initial boiling point and boiling range
Not available.
Flash point
-156.0 °F (-104.4 °C) Propellant estimated
Evaporation rate
Not available.
Flammability (solid, gas)
Not available.

Flammability limit - lower (%)
Not available.
Flammability limit - upper (%)
Not available.
Explosive limit - lower (%)
1.9% estimated
Explosive limit - upper (%)
9.5% estimated
Vapor pressure
Not available.
Vapor density
Not available.
Relative density
0.99 ± 0.01 (liquid)
Relative density temperature
75 °F (23.9 °C)
Solubilities (water)
Soluble (liquid)
Partition Coefficient n-octanol/water
Not available
Auto-ignition temperature
Not Available
Decomposition temperature
Not Available
VOC's
10.5 %
Pressure
40 - 52 psig @ 70F

Section 10 - Stability and reactivity

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

Chemical stability
Material is stable under normal conditions.

Possibility of hazardous reactions
Hazardous polymerization does not occur.

Conditions to Avoid
Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials.

Incompatible materials
Strong oxidizing agents.

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SAFETY DATA SHEET

Section 11 - Toxicological information

Information on likely routes of exposure

Inhalation Expected to be a low ingestion hazard.
Ingestion May cause respiratory tract irritation. This product may be aspirated onto the lungs and cause chemical pneumonitis.
Skin contact Causes skin irritation. May cause sensitization by skin contact. Prolonged or repeated skin contact may cause drying, cracking, or irritation.
Eye contact Causes eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Information on toxicological effects.

Acute toxicity May be harmful if swallowed.

<table>
<thead>
<tr>
<th>Components</th>
<th>Level</th>
<th>Type</th>
<th>Code</th>
<th>Species</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol (CAS 64-17-5)</td>
<td>Acute</td>
<td>Inhalation</td>
<td>LC50</td>
<td>Rat</td>
<td>117 - 125 mg/l, 4 h</td>
</tr>
<tr>
<td></td>
<td>Acute</td>
<td>Oral</td>
<td>LD50</td>
<td>Rat</td>
<td>10470 mg/kg</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.
Serious eye damage/eye irritation Causes eye irritation.
Respiratory sensitization This product is not expected to cause respiratory sensitization.
Skin sensitization May cause sensitization by skin contact.
Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity Risk of cancer cannot be excluded with prolonged exposure.

IARC Monographs. Overall Evaluation of Carcinogenicity

<table>
<thead>
<tr>
<th>Component</th>
<th>Result</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amides, coco, N, N-bis(hydroxyethyl) (CAS 68603-42-9)</td>
<td>2B</td>
<td>Possibly carcinogenic to humans.</td>
</tr>
</tbody>
</table>

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

Specific target organ toxicity - single exposure 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. May be harmful if absorbed through skin.

Section 12 - Ecological Information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

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

Bioaccumulative potential No data available.

<table>
<thead>
<tr>
<th>Components</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol (CAS 64-17-5)</td>
<td>-0.31</td>
</tr>
<tr>
<td>Diethylene Glycol Monoethyl Ether (CAS 111-90-0)</td>
<td>-0.54</td>
</tr>
</tbody>
</table>

Mobility in soil No data available.
Mobility in general 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.

Section 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 Dispose in accordance with all applicable regulations.
Hazardous waste code 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.
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.
SAFETY DATA SHEET

Section 14 - Transport information

**DOT**

<table>
<thead>
<tr>
<th>UN number</th>
<th>UN1950</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper shipping name</td>
<td>Aerosols, flammable</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>2.1</td>
</tr>
<tr>
<td>Packing group</td>
<td>Not Applicable.</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>Read safety instructions, SDS and emergency procedures before handling.</td>
</tr>
<tr>
<td>Labels required</td>
<td>None/Ninguno</td>
</tr>
<tr>
<td>Packaging exemption</td>
<td>306</td>
</tr>
<tr>
<td>Packaging non bulk</td>
<td>None/Ninguno</td>
</tr>
<tr>
<td>Packaging bulk</td>
<td>None/Ninguno</td>
</tr>
<tr>
<td>Comment</td>
<td>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 &quot;Consumer Commodity - ORM-D&quot; 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 &quot;Consumer Commodity ORM-D&quot; marking and both may be displayed concurrently.</td>
</tr>
</tbody>
</table>

**IATA**

<table>
<thead>
<tr>
<th>UN number</th>
<th>UN1950</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name</td>
<td>Aerosols, flammable</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>2.1</td>
</tr>
<tr>
<td>Packaging group</td>
<td>Not Applicable.</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>No.</td>
</tr>
<tr>
<td>Labels required</td>
<td>2.1</td>
</tr>
<tr>
<td>ERG Code</td>
<td>10L</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>Read safety instructions, SDS and emergency procedures before handling.</td>
</tr>
</tbody>
</table>

**IMDG**

<table>
<thead>
<tr>
<th>UN number</th>
<th>UN1950</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name</td>
<td>AEROSOLS</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>2.1</td>
</tr>
<tr>
<td>Packaging group</td>
<td>Not Applicable.</td>
</tr>
<tr>
<td>Marine pollutant</td>
<td>No.</td>
</tr>
<tr>
<td>Labels required</td>
<td>2.1</td>
</tr>
<tr>
<td>EmS</td>
<td>F-D, S-U</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>Read safety instructions, SDS and emergency procedures before handling.</td>
</tr>
</tbody>
</table>

**Section 15 - Regulatory Information**

**US federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

**TSCA Section 12(b) Export Notification (40 CFR707, Subpt. D)**

<table>
<thead>
<tr>
<th>Components</th>
<th>Result</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquified Petroleum Gas (CAS 68476-86-8)</td>
<td>8-12%</td>
<td>Not regulated.</td>
</tr>
</tbody>
</table>


Not listed

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

<table>
<thead>
<tr>
<th>Components</th>
<th>Result</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene Glycol Monoethyl Ether (CAS 111-90-0)</td>
<td>LISTED</td>
<td></td>
</tr>
<tr>
<td>Ethyl Alcohol (CAS 64-17-5)</td>
<td>LISTED</td>
<td></td>
</tr>
</tbody>
</table>

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

<table>
<thead>
<tr>
<th>Hazard Categories</th>
<th>Immediate Hazard</th>
<th>Delayed Hazard</th>
<th>Fire Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

Section 1 - Identification of the substance or mixture

CAS # 111-90-0

Section 2 - Hazards identification

Hazard classification:
- Diethylene Glycol Monoethyl Ether

Other regulations:
- Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HSPs) List
  - Diethylene Glycol Monoethyl Ether (CAS 111-90-0)
- Safe Drinking Water Act (SDWA) Not regulated.
- Food and Drug Administration (FDA) Not regulated.
- New Zealand Inventory Existing Chemicals List (ECL)
- New Zealand Inventory of Existing and New Chemical Substances (ENCS)
- Australian Inventory of Chemical Substances (AICS)
- European Inventory of Existing Commercial Chemical Substances (EINECS)
- European List of Notified Chemical Substances (ELINCS)
- Inventory of Existing Chemical Substances in China (IECSC)
- Inventory of Existing and New Chemical Substances (ENCS)
- Existing Chemicals List (ECL)
- Toxic Substances Control Act (TSCA) Inventory

Section 3 - Composition/information on ingredients

Chemical name: Diethylene Glycol Monoethyl Ether
CAS #: 111-90-0
% by wt.: 4 - 10

Components:
- Ethyl Alcohol (CAS 64-17-5)
- Diethylene Glycol Monoethyl Ether (CAS 111-90-0)

Section 4 - First aid measures

Disposal of contents:
- Wash with water

Section 5 - Fire fighting measures

Extinguishing media:
- Water

Special hazards of fire fighting:
- Diethylene Glycol Monoethyl Ether

Section 6 - Accidental release measures

Disposal:
- Wash with water

Section 7 - Handling and storage

Handling:
- Do not eat, drink or smoke

Incompatible materials:
- Water

Section 8 - Exposure controls/personal protection

Personal protective equipment:
- Chemical protective gloves

Section 9 - Physical and chemical properties

Physical state: Liquid

Melting point (°C): 13

Boiling point (°C): 220

Specific gravity: 0.95

Evaporation rate: n/a

Odor:
- Not detected

Section 10 - Stability and reactivity

Stability:
- Stable

Reactivity:
- Not reactive

Potential hazards:
- Pressure Hazard: Yes

Section 11 - Toxicological information

LC50 (oral rat): 1000 mg/kg

LD50 (oral rat): 2000 mg/kg

Section 12 - Ecological information

Venomous:
- No

Biodegradable:
- No

Persistence:
- No

Section 13 - Disposal considerations

Disposal methods:
- Wash with water

Section 14 - Transportation information

UN number:
- 278

DOT number:
- 3

IATA number:
- 3

Section 15 - Regulatory information

SARA 302 Extremely hazardous substance: Not regulated.

SARA 311/312 Hazardous chemical: No

SARA 313 (TRI reporting) Not regulated.

Other federal regulations:
- Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
  - Diethylene glycol monoethyl ether (CAS 111-90-0)
- Safe Drinking Water Act (SDWA) Not regulated.
- Food and Drug Administration (FDA) Not regulated.
- International Inventories
  - US. Massachusetts RTK - Substance List
  - US. New Jersey Worker and Community Right-to-Know Act
  - US. Pennsylvania RTK - Hazardous Substances
  - US. Rhode Island RTK
  - US - California Proposition 65 WARNING: This product can expose you to chemicals including Amides, coco, N, N-bis(hydroxethyl) (CAS # 68603-4) which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Section 16 - Other information, including date of preparation or last version

Revision date: 1/17/2018
Version #: 02
Disclaimer:
The information contained herein was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond the manufacturer’s control, it is the user’s responsibility both to determine safe conditions for use of this product and to assume liability for loss, injury, damage or expense arising from the product’s improper use. No warranty, expressed or implied, regarding the product described herein shall be created by or inferred from any statement or omission in this SDS. Various government agencies may have specific regulations concerning the transportation, handling, storage, use or disposal of this product which may not be reflected in this SDS. The user should review these regulations to ensure full compliance.

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