# SAFETY DATA SHEET



### 1. Product and Company Identification

Product identifier EasySeal Ultimate-SS (4050-05)

Other means of identification Not available

Recommended use Refrigerant leak sealant

Recommended restrictions None known.

Manufacturer information Nu-Calgon

2611 Schuetz Road St. Louis, MO 63043 US

Phone: 314-469-7000 / 800-554-5499

Emergency Phone: 1-800-424-9300 (CHEMTREC)

**Supplier** See above.

## 2. Hazards Identification

Physical hazardsFlammable liquidsCategory 3Health hazardsSkin corrosion/irritationCategory 1BSerious eye damage/eye irritationCategory 1

Sensitization, skin Category 1
Specific target organ toxicity, repeated Category 2

exposure

Environmental hazards Not classified.

WHMIS 2015 defined hazards Not classified

Label elements



Signal word Danger

Hazard statement Flammable liquid and vapor. Causes severe skin burns and eye damage. May cause an allergic

skin reaction. May cause damage to organs through prolonged or repeated exposure.

**Precautionary statement** 

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

Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Wear protective gloves, protective clothing, eye protection and face protection. Do not breathe mist or vapor. Wash thoroughly after handling. Contaminated work

clothing should not be allowed out of the workplace.

Response In case of fire: Use appropriate media to extinguish. IF SWALLOWED: Rinse mouth. Do NOT

induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If skin irritation or rash occurs: Get medical advice/attention. Immediately call a POISON CENTER or doctor. Specific treatment (see information on this label). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

Storage Store in a well-ventilated place. Keep cool. Store locked up.

**Disposal** Dispose of container in accordance with local, regional, national and international regulations.

WHMIS 2015: Health Hazard(s) not otherwise classified

(HHNOC)

WHMIS 2015: Physical Hazard(s) not otherwise

classified (PHNOC)
Hazard(s) not otherwise

None known.

None known

None known

classified (HNOC)

Supplemental information None.

#### 3. Composition/Information on Ingredients

#### **Mixture**

Chemical name	Common name and synonyms	CAS number	%
1-Propanamine, 3-(triethoxysilyl)-		919-30-2	10-30*
2-Butanone, O,O',O"-(methylsilylidyne)trioxime		22984-54-9	10-30*
Methyl triethoxysilane		2031-67-6	45-70*

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### **Composition comments**

US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

\*CANADA GHS: The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. First Aid Measures

Inhalation IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.

> IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.

Specific treatment (see information on this label). If skin irritation or rash occurs: Get medical attention.

Eye contact

IF IN EYES: 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.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or

doctor.

Most important

Ingestion

Skin contact

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Prolonged exposure may cause chronic effects.

Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

treatment needed **General information** 

Take off all contaminated clothing immediately. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse. Avoid contact with eyes and skin. Keep out of reach of children.

## 5. Fire Fighting Measures

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from

the chemical

Special protective equipment and precautions for firefighters

Fire-fighting

equipment/instructions Specific methods

General fire hazards Hazardous combustion products

Water fog. Foam. Dry chemical powder. Carbon dioxide.

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

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

Flammable liquid and vapor.

May include and are not limited to: Oxides of carbon. Oxides of nitrogen.

### 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. 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

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area), Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Do not discharge into lakes, streams, ponds or public waters.

### **Environmental precautions**

# 7. Handling and Storage

### Precautions for safe handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. All equipment used when handling the product must be grounded. Take precautionary measures against static discharges. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. When using do not eat or drink.

### Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Keep out of reach of children.

# 8. Exposure Controls/Personal Protection

### Occupational exposure limits

**Biological limit values** 

Appropriate engineering controls

No exposure limits noted for ingredient(s).

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

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.

#### Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Hand protection

Impervious gloves. Confirm with reputable supplier first.

Other

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. As

required by employer code.

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. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

Thermal hazards

Not applicable.

Clear

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. Contaminated work clothing should not be allowed out of the workplace.

# 9. Physical and Chemical Properties

**Appearance** Physical state Liquid. Liquid. **Form** Color Blue Amine Odor Odor threshold Not available. рΗ Not available. Not available. Melting point/freezing point Initial boiling point and boiling Not available. range Not available. Pour point

Not available. Specific gravity Not available. Partition coefficient

(n-octanol/water)

107.6 °F (42.0 °C) Closed Cup Flash point

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

Flammability limit - lower

Not available.

Flammability limit - upper

Not available.

(%)

Not available. Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Vapor pressure Not available. Vapor density Relative density Not available. Solubility(ies) Not available. **Auto-ignition temperature** Not available. **Decomposition temperature** Not available.

Other information

Viscosity

Not explosive. **Explosive properties** Not oxidizing. **Oxidizing properties** 

## 10. Stability and Reactivity

Reactivity This product may react with strong oxidizing agents.

Not available.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

**Chemical stability** Material is stable under normal conditions.

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Do not mix with other chemicals.

Incompatible materials

Hazardous decomposition

Strong oxidizing agents. May include and are not limited to: Oxides of carbon. Oxides of nitrogen.

products

11. Toxicological Information

Eye, Skin contact, Inhalation, Ingestion. Routes of exposure

Information on likely routes of exposure

Causes digestive tract burns. May cause stomach distress, nausea or vomiting. Ingestion

Inhalation May cause damage to organs through prolonged or repeated exposure by inhalation. May cause

irritation to the respiratory system.

Skin contact Causes severe skin burns. May cause an allergic skin reaction.

Eye contact Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

Information on toxicological effects

**Acute toxicity** May cause an allergic skin reaction.

Components Species **Test Results** 

1-Propanamine, 3-(triethoxysilyl)- (CAS 919-30-2)

Acute

Dermal

LD50 Rabbit > 6 ml/kg, 24 Hours, ECHA

> 4.3 ml/kg, 24 Hours, ECHA 4 ml/kg, 24 Hours, ECHA

Rat 8 - 16 ml/kg, 24 Hours, ECHA

**Species Test Results** Components Inhalation LC50 Rat > 16 ppm, 6 Hours, ECHA > 7.4 mg/L, 4 Hours, ECHA > 5 ppm, 6 Hours, ECHA Oral LD50 Mouse 2000 mg/kg, ECHA 530 mg/kg, ECHA Rat 1780 mg/kg, Sigma Aldrich 7.1 ml/kg, ECHA 6.5 ml/kg, ECHA 3.7 ml/kg, ECHA 3 ml/kg, ECHA 2.8 ml/kg, ECHA 1.6 ml/kg, ECHA 2-Butanone, O,O',O"-(methylsilylidyne)trioxime (CAS 22984-54-9) Acute Dermal LD50 Rat > 2000 mg/kg, 24 Hours, ECHA Inhalation LC50 Not available Oral LD50 Rat 2463 mg/kg, ECHA 2453 mg/kg, ECHA Methyl triethoxysilane (CAS 2031-67-6) Acute Dermal LD50 Rabbit > 14240 mg/kg, 24 Hours, ECHA 11837 mg/kg, 24 Hours, ECHA Rat > 2007 mg/kg, 24 Hours, ECHA Inhalation Rat > 13500 mg/m3, 4 Hours, ECHA LC50 Oral Rat LD50 > 2007 mg/kg, ECHA 7627 mg/kg Skin corrosion/irritation Causes severe skin burns and eye damage. **Exposure minutes** Not available. Erythema value Not available. Oedema value Not available. Serious eye damage/eye Causes serious eye damage. irritation Not available. Corneal opacity value Not available. Iris lesion value Conjunctival reddening Not available. value Not available. Conjunctival oedema value Recover days Not available. Respiratory or skin sensitization Not a respiratory sensitizer. Respiratory sensitization Skin sensitization May cause an allergic skin reaction. Mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

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

Not listed.

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

Teratogenicity Specific target organ toxicity -

Not available. Not classified.

single exposure

repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Specific target organ toxicity -

**Aspiration hazard** 

Not an aspiration hazard.

**Chronic effects** 

May cause damage to organs through prolonged or repeated exposure.

# 12. Ecological Information

Not available. **Ecotoxicity** 

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

Bioaccumulative potential No data available. No data available. Mobility in soil Not available. Mobility in general

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

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

## 13. Disposal Considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. 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 (see:

Disposal instructions).

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

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

## 14. Transport Information

**Transport of Dangerous Goods** (TDG) Proof of Classification

Classification Method: Classified as per Part 2, Sections 2.1 - 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below.

### U.S. Department of Transportation (DOT)

Basic shipping requirements:

**UN** number

Proper shipping name Corrosive liquids, flammable, n.o.s **Technical name** 1-Propanamine, 3-(triethoxysilyl)-

**Technical name** Methyl triethoxysilane

**Hazard class** 8 3 Subsidiary hazard class П **Packing group** 

**Special provisions** B2, IB2, T11, TP2, TP27

Packaging exceptions 154

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

UN2920 **UN number** 

CORROSIVE LIQUID, FLAMMABLE, N.O.S. Proper shipping name

**Technical name** 1-Propanamine, 3-(triethoxysilyl)-

**Technical name** Methyl triethoxysilane

Hazard class 8 3 Subsidiary hazard class П **Packing group** 16 Special provisions



## 15. Regulatory Information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

**Greenhouse Gases** 

Not listed.

**Precursor Control Regulations** 

Not regulated.

WHMIS 2015 Exemptions

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication **US** federal regulations

Standard, 29 CFR 1910.1200.

All chemicals used are on the TSCA inventory.

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

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

Not applicable

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes **Hazard categories** 

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

**SARA 302 Extremely** No

hazardous substance

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Not regulated.

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)

Not regulated.

**US** state regulations See below

#### US - Texas Effects Screening Levels: Listed substance

1- Propanamine, 3-(triethoxysilyl)- (CAS 919-30-2) Listed.

Butanone, O,O',O"-(methylsilylidyne)trioxime Listed. (CAS 22984-54-9)

Methyl triethoxysilane (CAS 2031-67-6) Listed.

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

Not regulated.

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

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

Not listed.

### **US. Rhode Island RTK**

Not regulated.

#### **US. California Proposition 65**

Not Listed.

### Inventory status

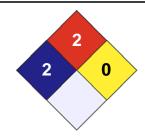
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

### 16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





#### Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Nu-Calgon Technical Service Phone: (314) 469-7000 Prepared by

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the Other information

document.