



## Section 1. Identification of the substance/mixture and of the company/undertaking

### Product identifier

Product Name: 461-00

### Relevant identified uses of the substance or mixture and uses advised against

Recommended Use(s): Sealants, Industrial applications

### Details of the supplier of the safety data sheet

Manufacturer: Adfast  
2685 Diab  
Ville Saint-Laurent Quebec H4S 1E7  
Canada

Email: [servicemtl@adfastcorp.com](mailto:servicemtl@adfastcorp.com)

Url: <http://www.adfastcorp.com>

### Emergency telephone number

Emergency Contact: Emergency Spills (CANUTEC): 613-996-6666  
Emergency Spills (CHEMTREC): 800-424-9300

## Section 2. Hazards identification

### Classification of the substance or mixture

GHS Classification for mixture:  
Reproductive toxicity (Fertility) - Category 2

### Label elements

Pictograms:



Signal Words:

Warning

Hazard Statements:

Suspected of damaging fertility or the unborn child. (Fertility)

Precautionary Statements:

Prevention

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.  
Wear protective gloves, eye protection, protective clothing.

#### Response

If exposed or concerned: Get medical attention / advice.

#### Storage

Store locked up.

#### Disposal

Dispose of contents in accordance with all local, regional, national and international regulations.

## Section 3. Composition/information on ingredients

### Substances

Identifiers	Ingredients	Percentage	Classification
35141-30-1	N-(2-aminoethyl)-N'-[3-(trimethoxysilyl)propyl] ethylenediamine	<3%	Skin. Sens. 1, Aquatic Chronic 2, Eye Dam. 1
556-67-2	Octamethylcyclotetrasiloxane	<0.3%	Aquatic Chronic 4, Repr. 2

## Section 4. First-Aid Measures

### Description of First Aid Measures

#### In the event of splashes or contact with eyes

Wash eyes with plenty of water. Hold eyelids open to ensure adequate flushing. Seek medical attention if irritation, redness, or any other symptom develops.

#### In the event of splashes or contact with skin

Wash contaminated areas thoroughly with water. Remove contaminated clothing. Immediately seek medical attention.

#### In the event of ingestion

DO NOT INDUCE VOMITING. If spontaneous vomiting occurs, lean the exposed person forward to reduce the risk of aspiration. If after ingestion you feel unwell, seek medical advice. If the exposed person is drowsy or unconscious, do not give anything by mouth. Rinse the mouth with water.

#### In the event of inhalation

Remove person to fresh air and keep at rest in a position comfortable for breathing. Loosen tight clothing such as a collar, tie, belt, or waistband. If the exposed person is not breathing, provide artificial respiration. It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious, or corrosive. If after inhalation you feel unwell, seek medical advice. Do not leave the exposed person unattended. The exposed person may need to be kept under medical surveillance for 48 hours.

### Most important symptoms and effects, both acute and delayed

**Skin contact:** Adverse symptoms may include the following. Reduced fetal weight. Increase in fetal deaths. Skeletal malformations.

**Inhalation:** Adverse symptoms may include the following. Reduced fetal weight. Increase in fetal deaths. Skeletal malformations.

### Indication of any immediate medical attention and special treatment needed

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

## Section 5. Firefighting Measures

### Extinguishing media

#### Suitable Extinguishing Media

**The suggested appropriate media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Unsuitable Extinguishing Media

High power water jets.

### Special hazards arising from the substance or mixture

#### Specific Hazards Arising from Combustion of Products

**Fire / decomposition hazards:** Gas, vapors, or dust can be harmful.

**Indirect fire hazard:** Containers can build up pressure if exposed to heat and/or fire.

#### Combustion Products

Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). Metal oxides. Oxides of nitrogen (NO<sub>x</sub>). Formaldehyde.

### Advice for firefighters

#### Protective Measures for Fire-Fighting

Wear protective gloves, clothing, and protective goggles to prevent contact with skin and eyes. Wear self-contained breathing apparatus.

#### Special Protective Actions for Fire-Fighters

Always stay away from tanks engulfed in fire. Avoid being exposed to gas / mist / dust / fume / vapor / spray / particles. Avoid breathing gas / mist / dust / fume / vapor / spray / particles. Avoid direct contact with the substance (solid / liquid / vapor). Evacuate the people from the area. Isolate hazard area and deny entry.

#### Other Information for Fire Fighters

**Large fires:** In the case of large fires, evacuate residents who are downwind of fire.

## Section 6. Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel:** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders:** Wear appropriate personal protective equipment recommended in Section 8 of the SDS. See also the information in "For non-emergency personnel".

### Environmental precautions

If the product has entered a water course or sewer or contaminated soil or vegetation, advise the local emergency services and environmental authorities. Prevent contamination of soil and surface water.

### Methods and material for containment and cleaning up

**Large spills:** If possible, dike the area to prevent spreading.

Collect and transfer to a closable container without splash or generating dust / mist for disposal by an appropriate method. Ensure cleanup is conducted by trained personnel only. Move containers from spill area if there is no risk. Stop leak if safe to do so. Turn leaking containers leak-side up to prevent the escape of liquid. Absorb with earth, sand, or other non-combustible material.

### Reference to other sections

## Section 7. Handling and Storage

### Precautions for safe handling

DO NOT HANDLE DURING PREGNANCY. Avoid being exposed to gas / mist / dust / fume / vapor / spray / particles. Avoid breathing gas / mist / dust / fume / vapor / spray / particles. Do not eat, drink or smoke during handling. Do not handle until all safety precautions have been read and understood. Handle in accordance with all current regulations and standards. Handle in accordance with good industrial hygiene and safety practice. Wash any exposed area of body thoroughly after handling. Empty containers retain product residue and can be hazardous. Do not reuse container.

### Conditions for safe storage, including any incompatibilities

#### Conditions for Safe Storage

**Storage temperature:** ~ 24°C.

**Keep away from:** Direct sunlight.

Keep container tightly closed. Store only in well-ventilated areas. Store in a cool and dry area. Store locked up.

#### Suitable Packaging

Store in original container / packaging.

#### Incompatible Materials

Not specified.

### Specific end use(s)

## Section 8. Exposure Controls / Personal Protection

### Control parameters

#### Control Parameters / Limits for Product

Not established for the product or its ingredients.

### Exposure controls

#### Engineering Measures

Provide adequate general and local exhaust ventilation. Respect the occupational health and safety standards. Safety showers and eye wash stations should be easily accessible to areas where product is stored, handled or used.

#### Eye/Face Protection

Ensure eye bath is at hand. Wear splash resistant safety goggles with a face shield.

#### Skin and Body Protection

Wear appropriate chemical resistant clothing.

#### Hand Protection

Wear appropriate chemical resistant gloves.

#### Hygiene Measures

Avoid contact during pregnancy or while nursing. Contaminated work clothing should not be allowed out of the workplace. Keep away from food or drink. Use in accordance with good hygiene and safety practice. Wash Hands thoroughly after handling.

### Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## Section 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical State	Paste (liquid)
Appearance	Various colors
Odor	Solvent (slight)
Odor threshold	Not available
pH	Not available
Melting point	Not available
Boiling point	Not available
Flash Point	Not available
Evaporation rate	Not available
Flammability F	Not available
Flammability limit	Not available
Vapor pressure	119 mmHg at 50°C 36 mmHg at Room temperature
Vapor density	Not available
Relative density	1.02 to 1.04 multiplier w/r/t water
Solubility	Insoluble
Solubility in other solvents	Not available
Partition coefficient	Not available
Auto-ignition temperature	435°C / 815°F
Decomposition	Not available
temperature Viscosity	Not available
Freezing point	Not available
VOC content	0.411 lb/gal 48.2 g/l

### Other Information

## Section 10. Chemical Stability & Reactivity Information

### Reactivity

No specific test data related to reactivity available for this product or its ingredients.

### Chemical Stability

The product is stable.

### Possibility of Hazardous Reactions

Hazardous polymerization will not occur under normal conditions.

### Conditions to Avoid

**Keep away from:** Heat.

Contact with water produces Methyl Ethyl Ketoxime (MEKO) above 150°C.

## Incompatible Materials

Avoid contact or storage with: Alkalis. Acids. Water. Moisture.

## Hazardous Decomposition Products

This product is stable under normal storage condition.

## Section 11. Toxicological Information

### Information on toxicological effects

#### Toxicological Information for Product

**Potential delaye deffects:** Curing of this product will produce methyl ethyl ketoxime (MEKO). Repeated or prolonged exposure may have chronic health effects.

**Reproductive toxicity:** Adverse symptoms may include the following. Reduced fetal weight. Increase in fetal deaths. Skeletal malformations. Routes of entry anticipated: Oral, Dermal, Inhalation.

No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed human carcinogen by IARC, OSHA, or the NTP.

**LD50 Oral** Greater than 5000 mg/kg Rat

#### Toxicological Information for Component

##### Octamethylcyclotetrasiloxane

<b>Irritation/Corrosion Eyes</b>	500 mg Rabbit.
<b>Irritation/Corrosion Skin</b>	500 mg Rabbit.
<b>LC50 Inhalation</b>	36 g/m <sup>3</sup> Rat.
<b>LD50 Dermal</b>	1770 mg/kg Rat.
<b>LD50 Oral</b>	1540 mg/kg Rat. Greater than 5000 mg/kg Rat.

#### Irritation/Corrosion Information for Product

**Eyes:** Non-irritating to eyes.

**Skin:** Non-irritating to skin. Not sensitizing.

## Section 12. Ecological Information

### Bioaccumulative potential

#### Bioaccumulative Potential for Component

##### Octamethylcyclotetrasiloxane

**Potential:** High.  
**BCF:** 13400.  
**LogPow:** 6.488.

## Section 13. Disposal Considerations

## Waste treatment methods

### Waste Disposal Regulation(s) / Operation

Avoid release to soil. Disposal, treatment, or recycling of industrial waste must comply with applicable regulations to preserve the environment. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of national pollutant discharge elimination systems. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. Users need to pay attention to the possible existence of regional or national regulations regarding disposal.

## Section 14. Transportation Information

	ADR	IMDG	IATA	DOT
UN number				
UN proper shipping name				
Transport hazard class(es)				
Packing group				
Environmental hazards				
Special precautions for user				
Transport in bulk according to Annex II of Marpol and the IBC Code				
Other	This product is not regulated for transport			

## Section 15. Regulatory Information

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

#### Safety, Health and Environmental Regulations for Product

**California prop 65:** this product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm. Methanol. Maximum acceptable dosage level (Ingestion): 23000 µg/day. Maximum acceptable dosage level (inhalation): 47000 µg/day.

**SARA 311/312:** Delayed (chronic) health hazard.

**Clean Air Act:** Listed.

#### Safety, Health and Environmental Regulations for Component

##### Octamethylcyclotetrasiloxane

Fire hazard:	Yes.
Delayed (chronic) health hazard:	Yes.
Immediate (acute) health hazard:	Yes.
TSCA:	Listed.

## Chemical safety assessment

## Section 16. Other Information

### Disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product

## Glossary

**ATE:** Acute Toxicity Estimate.

**BCF:** Bioconcentration Factor.

**GHS:** Globally Harmonized System of Classification and Labelling of Chemicals.

**HCS (U.S.A.):** Hazard Communication Standard International transport regulations.

**IATA:** International Air Transport Association.

**IBC:** Intermediate Bulk Container.

**IMDG:** International Maritime Dangerous Goods.

**LogPow:** logarithm of the octanol/water partition coefficient.

**MARPOL 73/78:** International Convention for the Prevention of Pollution From Ships.