# SAFETY DATA SHEET

KIMBALL VIDWEST

Specializing in Materials Management

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## Section 1. Identification

**GHS** product identifier

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Other means of identification

: Not available.

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

Not available.

Supplier's details

Kimball Midwest 4800 Roberts Road Columbus, OH 43228 Phone: 800-233-1294

**Emergency telephone** 

number

: CHEMTREC, U.S.: 1-800-424-9300

## Section 2. Hazards identification

For this product, the ignition distance test and the flammability test do not apply. Therefore, the final product is non-flammable.

**OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

: GASES UNDER PRESSURE - Liquefied gas SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

AQUATIC HAZARD (ACUTE) - Category 3

**GHS** label elements

Hazard pictograms





Signal word : Warning

**Hazard statements** : Contains gas under pressure; may explode if heated.

Causes serious eye irritation.

Causes skin irritation.

May cause respiratory irritation.

Harmful to aquatic life.

**Precautionary statements** 

**General** 

: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.



## Section 2. Hazards identification

**Prevention** 

: Wear protective gloves. Wear eye or face protection. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Avoid breathing vapor. Wash hands thoroughly after handling.

Response

: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical attention. 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 attention.

**Storage** 

: Store locked up. Protect from sunlight. Store in a well-ventilated place.

**Disposal** 

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

Hazards not otherwise classified

: None known.

# Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Not available.

#### **CAS** number/other identifiers

CAS number : Not applicable.

Product code : Not available.

Ingredient name	%	CAS number	Pure Substance Classification
Siloxanes and Silicones, di-Me	60 - 100	63148-62-9	AQUATIC HAZARD (ACUTE) - Category 3
Silica, amorphous, fumed, crystfree	10 - 30	112945-52-5	SKIN CORROSION/IRRITATION - Category 2
			SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
			SPECIFIC TARGET ORGAN TOXICITY (SINGLE
			EXPOSURE) (Respiratory tract irritation) - Category 3
1,1-Difluoroethane	1 - 5	75-37-6	FLAMMABLE GASES - Category 1
			GASES UNDER PRESSURE - Liquefied gas

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First aid measures

## **Description of necessary first aid measures**

**Eye contact** 

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. 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 4. First aid measures

Skin contact

: Wash contaminated skin with soap and water. Continue to rinse for at least 20 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

## Most important symptoms/effects, acute and delayed

### Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : May cause respiratory irritation. Exposure to decomposition products may cause a

health hazard. Serious effects may be delayed following exposure.

Skin contact : Causes skin irritation.

Ingestion : Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

> pain or irritation watering

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

redness

Skin contact : Adverse symptoms may include the following:

> irritation redness

Ingestion : No known significant effects or critical hazards.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: 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.

**Specific treatments** 

: No specific treatment.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to

give mouth-to-mouth resuscitation.

See toxicological information (Section 11)



# Section 5. Fire-fighting measures

## **Extinguishing media**

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

: None known.

Specific hazards arising from the chemical

: This material is harmful to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide halogenated compounds carbonyl halides metal oxide/oxides

Special protective actions for fire-fighters

: No special precaution is required.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 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. 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:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

#### Methods and materials for containment and cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.



# Section 7. Handling and storage

### Precautions for safe handling

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

## Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

# including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

Ingredient name	Exposure limits
Silica, amorphous, fumed, crystfree	NIOSH REL (United States, 1/2013). TWA: 6 mg/m³ 10 hours.

### **Appropriate engineering** controls

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### **Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

### **Individual protection measures**

## Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

### **Skin protection**



# Section 8. Exposure controls/personal protection

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

# Section 9. Physical and chemical properties

**Appearance** 

**Physical state** : Liquid. [Paste.] Color : Translucent. Odor Sweet. [Slight] : Not available. **Odor threshold** pН : Not applicable. : Not available. **Melting point** : >300°C (>572°F) **Boiling point** : Not available. Flash point **Burning time** : Not applicable. **Burning rate** Not applicable. : Not available. **Evaporation rate** : Not available. Flammability (solid, gas)

Lower and upper explosive

(flammable) limits

Vapor pressure : <0.67 kPa (<5 mm Hg) [room temperature]

: Not available.

Vapor density : >1 [Air = 1] **Relative density** : 1.03

**Solubility** Insoluble in the following materials: cold water and hot water.

Solubility in water Insoluble

Partition coefficient: n-There is no data available.

octanol/water

**Auto-ignition temperature** : Not available. **Decomposition temperature** : Not available.

**SADT** : Not available.

**Viscosity** : Kinematic (room temperature): 8500 cm<sup>2</sup>/s (850000 cSt)



# Section 10. Stability and reactivity

**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

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

**Incompatible materials** : Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **Section 11. Toxicological information**

### Information on toxicological effects

## **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Siloxanes and Silicones, di-Me Silica, amorphous, fumed, crystfree	LD50 Oral LD50 Oral		>2000 mg/kg 3160 mg/kg	-

### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Siloxanes and Silicones, di-Me	Eyes - Mild irritant	Rabbit	-	1 hours 100 mg	-
	Skin - Mild irritant Eyes - Mild irritant	Rabbit Rabbit	-	24 hours 500 μL 24 hours 100 μL	-

### **Sensitization**

There is no data available.

#### Mutagenicity

There is no data available.

#### **Carcinogenicity**

### **Classification**

Product/ingredient name	OSHA	IARC	ACGIH	NTP
Silica, amorphous, fumed, crystfree	-	3	-	-

### Reproductive toxicity

There is no data available.

#### **Teratogenicity**

There is no data available.

## **Specific target organ toxicity (single exposure)**

Name		Route of exposure	Target organs
Silica, amorphous, fumed, crystfree	Category 3	Not applicable.	Respiratory tract irritation

## Specific target organ toxicity (repeated exposure)

There is no data available.

#### **Aspiration hazard**



# **Section 11. Toxicological information**

There is no data available.

Information on the likely routes of exposure

: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation : May cause respiratory irritation. Exposure to decomposition products may cause a

health hazard. Serious effects may be delayed following exposure.

**Skin contact** : Causes skin irritation.

**Ingestion**: Irritating to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

pain or irritation watering redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

**Skin contact**: Adverse symptoms may include the following:

irritation redness

**Ingestion**: No known significant effects or critical hazards.

Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

**Potential immediate** 

effects

: No known significant effects or critical hazards.

**Potential delayed effects**: No known significant effects or critical hazards.

Long term exposure

Potential immediate

effects

: No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Potential chronic health effects

General
 Carcinogenicity
 No known significant effects or critical hazards.
 Mutagenicity
 No known significant effects or critical hazards.
 Teratogenicity
 No known significant effects or critical hazards.
 Developmental effects
 No known significant effects or critical hazards.
 Fertility effects
 No known significant effects or critical hazards.

### **Numerical measures of toxicity**

### **Acute toxicity estimates**

Route	ATE value
Oral	21247.8 mg/kg



# **Section 12. Ecological information**

## **Toxicity**

Product/ingredient name	Result	Species	Exposure
*	• • • • • • • • • • • • • • • • • • • •	Daphnia - Daphnia magna - Instar Fish - Ictalurus punctatus	48 hours 96 hours

#### Persistence and degradability

There is no data available.

#### **Bioaccumulative potential**

There is no data available.

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: There is no data available.

Other adverse effects

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **Section 14. Transport information**

	DOT Classification	IMDG	IATA
UN number	UN1950	UN1950	UN1950
UN proper shipping name	Aerosols, flammable (each not exceeding 1 L capacity) (1, 1-Difluoroethane)	Aerosols, flammable (each not exceeding 1 L capacity) (1, 1-Difluoroethane)	Aerosols, flammable (each not exceeding 1 L capacity) (1, 1-Difluoroethane)
Transport hazard class(es)	2.1	2.1	2.1
Packing group	-	-	-
Environmental hazards	No.	No.	No.



# **Section 14. Transport information**

**Additional** Remarks Remarks Remarks Limited Quantity Exemption Limited Quantity Exemption Limited Quantity Exemption information

**AERG**: 126

Special precautions for user: Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according : Not available.

to Annex II of MARPOL 73/78 and the IBC Code

# **Section 15. Regulatory information**

U.S. Federal regulations : United States inventory (TSCA 8b): All components are listed or exempted.

Clean Air Act (CAA) 112 regulated flammable substances: 1,1-Difluoroethane

**Clean Air Act Section 112** 

(b) Hazardous Air **Pollutants (HAPs)**  : Not listed

Clean Air Act Section 602

Class I Substances

: Not listed

**Clean Air Act Section 602** 

**Class II Substances** 

: Not listed

**DEA List I Chemicals** 

(Precursor Chemicals)

: Not listed

**DEA List II Chemicals** 

: Not listed

(Essential Chemicals)

#### **SARA 302/304**

#### **Composition/information on ingredients**

No products were found.

SARA 304 RQ : Not applicable.

**SARA 311/312** 

Classification : Sudden release of pressure

Immediate (acute) health hazard

#### Composition/information on ingredients

Name	%	hazard	Sudden release of pressure		(acute) health	Delayed (chronic) health hazard
Silica, amorphous, fumed, crystfree	10 - 30	No.	No.	No.	Yes.	No.

#### State regulations

**Massachusetts** : The following components are listed: 1,1-Difluoroethane

**New York** : None of the components are listed.

: The following components are listed: 1,1-Difluoroethane **New Jersey** 

**Pennsylvania** : None of the components are listed.

California Prop. 65



# Section 15. Regulatory information

No products were found.

#### **International regulations**

**International lists** 

: Australia inventory (AICS): All components are listed or exempted. China inventory (IECSC): All components are listed or exempted.

Japan inventory: Not determined.

**Korea inventory**: All components are listed or exempted. Malaysia Inventory (EHS Register): Not determined.

New Zealand Inventory of Chemicals (NZIoC): Not determined. Philippines inventory (PICCS): All components are listed or exempted.

Taiwan inventory (CSNN): Not determined.

**Chemical Weapons** 

**Convention List Schedule** 

**I Chemicals** 

**Chemical Weapons** 

**Convention List Schedule** 

**II Chemicals** 

**Chemical Weapons** 

**Convention List Schedule** 

**III Chemicals** 

Not listed

: Not listed

: Not listed

# Section 16. Other information

### **History**

: 09/30/2014 Date of issue mm/dd/yyyy Date of previous issue : 05/30/2014

: 3 Version

**Revised Section(s)** : 2, 3, 14, 16.

**Prepared by** : KMK Regulatory Services Inc. : ATE = Acute Toxicity Estimate **Key to abbreviations** BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

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,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

