



## Material Safety Data Sheet

### 1. Product and Company Identification

Catalog Numbers: 4C6F-0  
 Product Name  
 Trade Name: Fructose  
 Synonyms: Ethyl 2-methyl-1,3-dioxolane-2-acetate; Ethyl acetoacetate 3-ethylene acetal  
 Manufacturer & Distributor  
 Company Name: Reagent World, Inc.  
 Address: 2048 E. Francis Street  
 City: Ontario  
 State: California  
 Postal Code: 91761  
 Country: USA  
 Business/Emergency  
 Phone: 909-947-7779  
 Fax: 909-947-9595  
 URL: <http://www.ReagentWorld.com>

### 2. Hazards Identification

Emergency Overview: Irritating to eyes, respiratory system and skin.  
 Potential Health Effects  
 Eye: Causes eye irritation  
 Skin: Causes skin irritation. May be harmful if absorbed through the skin.  
 Ingestion: May cause irritation of the digestive tract. May be harmful if swallowed.  
 Inhalation: Causes respiratory tract irritation. May be harmful if inhaled.  
 Chronic: -

### 3. Composition/Information on Ingredients

Chemical Name: Fructose  
 Molecular Formula: C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>  
 Molecular Weight: 174.19  
 Content: 80+%  
 CAS Number: 6413-10-1  
 EINECS NO. [EC No]: 229-114-0

### 4. First Aid Measures

Eye: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.  
 Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes  
 Ingestion: Get medical aid. Wash mouth out with water.  
 Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

### 5. Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.  
 Extinguishing: Use water spray, dry chemical, carbon dioxide, or chemical foam.

### 6. Accidental Release Measures

General Information: Use proper personal protective equipment as listed in Section 8.  
 Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Do not let this chemical enter the environment

### 7. Handling and Storage

Handling: Refer to section 8  
 Storage: 1. Keep in a cool, dry place  
 2. Keep container tightly closed

### 8. Exposure Controls/Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower facility.  
 Personal Protective Equipment  
 Eyes: Wear chemical safety goggles.  
 Skin: Wear appropriate protective gloves.  
 Clothing: Wear appropriate protective clothing.  
 Respirators: Wear NIOSH/MSHA - approved respirator

### 9. Physical and Chemical Properties

Physical State: Liquid  
 Color: Colourless  
 Odor: -  
 Boiling Point: 90-95  
 Melting Point: -  
 Vapor Pressure: -  
 Specific Gravity: -  
 PH: -  
 Solubility in Water: -  
 Flash Point: -  
 Autoignition Temperature: -  
 Decomposition Temperature: -

### 10. Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.  
 Conditions to Avoid: Incompatible materials.  
 Incompatibilities with Other: Strong oxidizing agents, strong reducing agents, strong bases

Hazardous Decomposition Products :	Carbon monoxide, carbon dioxide.
Polymerization :	Has not been reported.
<b>11. Toxicological Information</b>	
RTECS#:	JH6762500
Toxicity Data[LD50/LC50]:	-
Carcinogenicity:	-
Other:	-
<b>12. Ecological Information</b>	
Ecotoxicity:	-
Other:	Do not empty into drains.
<b>13. Disposal Considerations</b>	
Disposal considerations:	Contact a licensed professional waste disposal service to dispose of this material in a manner consistent with federal, state and local environmental regulations
<b>14. Transport Information</b>	
Shipping Name:	-
Hazard Class:	-
UN Number:	-
Packing Group:	-
<b>15. Regulatory Information</b>	
European/International Regulations:	-
European Labeling in Accordance with EC Directives	
Hazard Symbols:	1.Xi
R-Phrases:	1.Irritating to eyes. 2.Irritating to respiratory system. 3.Irritating to skin.
S-Phrases:	1.Do not breathe gas/fumes/vapour/spray. 2.In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 3.Wear suitable protective clothing. 4.Wear suitable gloves. 5.Wear eye/face protection.
WGK(Water Danger/Protection):	1
US Federal TSCA:	CAS# 6413-10-1 is listed on the TSCA Inventory
<b>16. Other Information</b>	
Other information:	The above information is believed to be accurate but does not suppose to be all inclusive and shall be used only as a guide. Reagent World makes no warranty of merchantability or any other warranty, express or implied, with respect to such information. Users should make their own investigations to determine the accountability of the information for their purposes in particular. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

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