

# SAFETY DATA SHEET

## 1. Identification

Product identifier Other means of identification	Dehydroacetic acid	
Product code	N-11578	
Synonym(s)	3-Acetyl-6-methyl-2H-pyran-2,4	(3H)-dione
Recommended use	For Laboratory Use Only	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier/I	Distributor information	
Manufacturer		
Company name Address	Chem Service, Inc. 660 Tower Lane West Chester, PA 19380 United States	
Telephone	Toll Free Direct	800-452-9994 610-692-3026
Website E-mail	www.chemservice.com info@chemservice.com	
Emergency phone number	Chemtrec US Chemtrec outside US	800-424-9300 +1 703-527-3887

## 2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral	Category 4
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		



Signal word	Warning
Hazard statement	Harmful if swallowed.
Precautionary statement	
Prevention	Wash thoroughly after handling. Do not eat, drink or smoke when using this product.
Response	If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth.
Storage	Store away from incompatible materials.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	Not applicable.

## 3. Composition/information on ingredients

#### Substances

Chemical name	Common name and synonyms	CAS number	%
Dehydroacetic acid	3-Acetyl-6-methyl-2H-pyran-2,4(3H)-dione	520-45-6	100

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures	
Inhalation	Move to fresh air. Call a physician if symptoms develop or 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. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Material name: Dehydroacetic acid

13234 Version #: 01 Issue date: 09-13-2014

Most important symptoms/effects, acute and delayed Indication of immediate medical attention and special treatment needed General information Direct contact with eyes may cause temporary irritation.

Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
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	Use water spray to cool unopened containers.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

### 6. Accidental release measures

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 personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. 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	Stop the flow of material, if this is without risk. 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.
7. Handling and storage	
Precautions for safe handling	Do not taste or swallow. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling.
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
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.
Individual protection measures,	such as personal protective equipment
Eye/face protection	If contact is likely, safety glasses with side shields are recommended.
Skin protection	
Hand protection	For prolonged or repeated skin contact use suitable protective gloves.
Other	Wear suitable protective clothing.
<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	When using, do not eat, drink or 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.

## 9. Physical and chemical properties

Appearance	
Physical state	

Physical state	Solid.
Form	Crystalline Solid

Color	Yellow
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	228.2 - 231.8 °F (109 - 111 °C)
Initial boiling point and boiling range	517.82 °F (269.9 °C) 101.325 kPa
Flash point	314.6 °F (157.0 °C) Open Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0 kPa at 25 °C 0.25 kPa at 100 °C
Vapor density	5.8
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Soluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	690.8 °F (366 °C)
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Flammability class	Combustible IIIB estimated
Molecular formula	C8-H8-O4
Molecular weight	168.15 g/mol
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport

The product is stable and non-reactive under normal conditions of use, storage and transport
Material is stable under normal conditions.
No dangerous reaction known under conditions of normal use.
Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Strong oxidizing agents.
No hazardous decomposition products are known.

## 11. Toxicological information

## Information on likely routes of exposure

Ingestion	Harmful if swallowed.
Inhalation	No adverse effects due to inhalation are expected.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Symptoms related to the physical, chemical and toxicological characteristics Information on toxicological eff	Direct contact with eyes may cause temporary irritation.

Acute toxicity

Harmful if swallowed.

Product	Species	Test Results		
Dehydroacetic acid (CAS 520-45-	-			
Acute	-,			
Oral				
LD50	Rat	570 mg/kg		
* Estimates for product may b	e based on additional component data not shown.			
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation	on.		
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritat	ion.		
Respiratory or skin sensitization	1			
<b>Respiratory sensitization</b>	Not available.			
Skin sensitization	This product is not expected to cause skin sensitizat	ion.		
Germ cell mutagenicity	No data available to indicate product or any compor mutagenic or genotoxic.	ents present at greater than 0.1% are		
Carcinogenicity	This product is not considered to be a carcinogen by	IARC, ACGIH, NTP, or OSHA.		
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.				
Reproductive toxicity	This product is not expected to cause reproductive of	or developmental effects.		
Specific target organ toxicity - single exposure	Not classified.			
Specific target organ toxicity - repeated exposure	Not classified.			
Aspiration hazard	Not available.			
12. Ecological information	1			
Ecotoxicity	The product is not classified as environmentally haz possibility that large or frequent spills can have a ha			
Persistence and degradability	No data is available on the degradability of this prod	uct.		
Bioaccumulative potential	No data available.			
Mobility in soil	No data available.			
Other adverse effects	No other adverse environmental effects (e.g. ozone potential, endocrine disruption, global warming pote			
13. Disposal considerations				
Disposal instructions	Collect and reclaim or dispose in sealed containers and its container must be disposed of as hazardous sewers/water supplies. Do not contaminate ponds, w container. Dispose of contents/container in accordan regulations.	waste. Do not allow this material to drain into vaterways or ditches with chemical or used nce with local/regional/national/international		
Local disposal regulations	Dispose in accordance with all applicable regulation			
Hazardous waste code	The waste code should be assigned in discussion be disposal company.	etween the user, the producer and the waste		
Waste from residues / unused products	Dispose of in accordance with local regulations. Em product residues. This material and its container mu Disposal instructions).			
Contaminated packaging	Empty containers should be taken to an approved w Since emptied containers may retain product residue emptied.			

## 14. Transport information

#### DOT

Not regulated as dangerous goods.

## ΙΑΤΑ

Not regulated as dangerous goods.

## IMDG

Not regulated as dangerous goods.

Transport in bulk according toNot applicable.Annex II of MARPOL 73/78 andthe IBC Code

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15. Regulatory informat	ion	
US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Ha Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.	azard Communication
TSCA Section 12(b) Expo	rt Notification (40 CFR 707, Subpt. D)	
Not regulated.		
	stance List (40 CFR 302.4)	
Not listed. SARA 304 Emergency rel	and notification	
Not regulated.		
	gulated Substances (29 CFR 1910.1001-1050)	
Not listed.		
Superfund Amendments and	Reauthorization Act of 1986 (SARA)	
Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Prestivitie Hazard - No	
CADA 202 Extremely her	Reactivity Hazard - No	
SARA 302 Extremely haz Not listed.	ardous substance	
SARA 311/312 Hazardous chemical	s Yes	
SARA 313 (TRI reporting) Not regulated.		
Other federal regulations		
Clean Air Act (CAA) Sect	on 112 Hazardous Air Pollutants (HAPs) List	
	on 112(r) Accidental Release Prevention (40 CFR 68.130)	
Not regulated.		
Safe Drinking Water Act (SDWA)	Not regulated.	
US state regulations		
US. Massachusetts RTK ·	Substance List	
Not regulated. US. New Jersey Worker a	nd Community Right-to-Know Act	
Not regulated. US. Pennsylvania RTK - H	lazardous Substances	
Not regulated. US. Rhode Island RTK		
Not regulated.		
	n 65 g Water and Toxic Enforcement Act of 1986 (Proposition 65): This mater y listed as carcinogens or reproductive toxins.	ial is not known to contain
International Inventories		
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes

Philippine Inventory of Chemicals and Chemical Substances (PICCS)

New Zealand Inventory

New Zealand

Philippines

Yes

Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

Issue date	09-13-2014
Version #	01
NFPA ratings	Health: 2 Flammability: 1 Instability: 0
Disclaimer	The above information is believed to be correct on the date it was last revised and must not be considered all inclusive. The information has been obtained only by a search of available literature and is only a guide for handling the chemicals. OSHA regulations require that if other hazards become evident, an upgraded SDS must be made available to the employee within three months. RESPONSIBILITY for updates lies with the employer and not with CHEM SERVICE, Inc.
	Persons not specifically and properly trained should not handle this chemical or its container. This product is furnished FOR LABORATORY USE ONLY! Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticide products, food additives or as household chemicals.
	This Safety Data Sheet (SDS) is intended only for use with Chem Service, Inc. products and should not be relied on for use with materials from any other supplier even if the chemical name(s) on the product are identical! Whenever using an SDS for a solution or mixture the user should refer to the SDS for every component of the solution or mixture. Chem Service warrants that this SDS is based upon the most current information available to Chem Service at the time it was last revised. THIS WARRANTY IS EXCLUSIVE, AND CHEM SERVICE, INC. MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. This SDS is provided gratis and CHEM SERVICE, INC. SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR CONTINGENT DAMAGES.
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