



# SAFETY DATA SHEET

Preparation Date: 3/20/2017 Revision Date: 3/20/2017 Revision Number: G1

## 1. IDENTIFICATION

Product identifier

Product code: F1098

Product Name: 2-FURANCARBOXYALDEHYDE, REAGENT, ACS

Other means of identification

**Synonyms:** 2-Formylfuran

Fural
Furfural
2-Furfural
Furfuraldehyde
Furfurale (Italian)

Furfurol Furfurole

2-Furil-metanale (Italian)

2-Furylaldehyde 2-Furylcarboxaldehyde

2-Furyl-methanal 2-Furanaldehyde

Furale

2-Furancarbonal

Furole alpha-Furole

Pyromucic aldehyde

 CAS #:
 98-01-1

 RTECS #
 LT7000000

 CI#:
 Not available

Recommended use of the chemical and restrictions on use

Recommended use: Constituent of rubber cement. Synthetic flavoring. Extractant in the refining of

lubricating oils, diesel fuels, and vegetable oils.

Uses advised against

No information available

**Supplier:** Spectrum Chemical Mfg. Corp

14422 South San Pedro St.

Gardena, CA 90248 (310) 516-8000.

Order Online At: https://www.spectrumchemical.com

Emergency telephone numberChemtrec 1-800-424-9300Contact Person:Martin LaBenz (West Coast)Contact Person:Ibad Tirmiz (East Coast)

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Product code: F1098 Product name: 1 / 14

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 3
Acute toxicity - Dermal	Category 3
Acute toxicity - Inhalation (Vapors)	Category 2
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (repeated exposure)	Category 2
Flammable liquids	Category 3

## Label elements

### Danger

### Hazard statements

Toxic if swallowed

Toxic in contact with skin

Fatal if inhaled

Causes skin irritation

Causes serious eye irritation

May cause damage to organs through prolonged or repeated exposure

Flammable liquid and vapor



## Hazards not otherwise classified (HNOC)

Not Applicable

# Other hazards

Not available

### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Wear respiratory protection

Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Keep cool

Wear protective gloves/protective clothing/eye protection/face protection

# **Precautionary Statements - Response**

Get medical advice/attention if you feel unwell

In case of fire: Use CO2, dry chemical, or foam to extinguish.

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 advice/attention.

If skin irritation occurs: Get medical advice/attention

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

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

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

### **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep container tightly closed

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
2-Furancarboxyaldehyde	98-01-1	100

## 4. FIRST AID MEASURES

### First aid measures

Product code: F1098

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect

himself.

**Skin Contact:** Toxic in contact with skin. Wash off immediately with soap and plenty of water removing all

contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a

physician.

**Eye Contact:** Flush eyes with water for 15 minutes. Get medical attention.

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention. WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical

attention is required.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Immediate medical attention is required. Toxic if swallowed.

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

Symptoms Causes serious eye irritation. Causes skin irritation. May cause digestive (gastrointestinal)

tract irritation. Ingestion of large amounts may cause nausea, vomiting, abdominal pain. Numbness and irritation of the mouth (tongue and lips). May cause impairment of sense of taste. Lacrimation. May cause coughing and shortness of breath. May cause pulmonary edema. May cause mydriasis (dilated pupils). May cause central nervous system effects. Ataxia. May affect behavior/central nervous system (tremor, convulsions). Dizziness.

Headache. May affect the liver. It may affect the kidneys.

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

Notes to Physician: Treat symptomatically.

### **Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

## 5. FIRE-FIGHTING MEASURES

**Extinguishing Media** 

Suitable Extinguishing Media: Use dry chemical, CO2, water spray or "alcohol" foam.

Cool affected containers with flooding quantities of water.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon Dioxide, Carbon Monoxide.

Specific hazards: Flammable in presence of open flames and sparks, of

heat. When heated to decompositon it emits acrid smoke and irritating fumes. Vapor forms flammable mixture with air. Vapors may travel to source of ignition and flash back. Spontaneous ignition occurs when furfural is mixed with

sodium hydrogen carbonate.

**Special Protective Actions for Firefighters** 

**Specific Methods:**No information available.

**Special Protective Equipment for Firefighters:** As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

### 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Use personal

protective equipment. Avoid contact with skin, eyes and clothing. Remove all sources of ignition. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded. Pay attention to flashback. Take precautionary measures against static discharges. In case of large spill, water spray or vapor suppressing foam may be used to reduce vapors, but may not prevent ignition in

closed spaces.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let this chemical enter

the environment. Prevent entry into waterways, sewers, basements or confined

areas.

Methods and material for containment and cleaning up

**Methods for containment** Stop leak if you can do it without risk. Absorb spill with inert material (e.g.

vermiculite, dry sand or earth). In case of large spill, dike if needed. Dike far

ahead of liquid spill for later disposal.

Methods for cleaning up

Use appropriate tools to put the spilled material in a suitable chemical waste

disposal container. Use only non-sparking tools. Clean contaminated surface

thoroughly.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

## **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from open flames, hot surfaces and sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials.

### Safe Handling Advice

Wear personal protective equipment. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not breathe vapors or spray mist. Do not ingest. When using do not smoke. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

## **Technical Measures/Storage Conditions:**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep refrigerated. Keep at temperatures between 2 and 8 °C. Protect from light. Sensitive to light. Store in light-resistant containers. Store in a segregated and approved area. Store away from incompatible materials.

# **Incompatible Materials:**

Oxidizing agents Acids Ammonia aliphatic amines Aromatic Amines Bases

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Product code: F1098

## National occupational exposure limits

### **United States**

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WHEEL
2-Furancarboxyaldehyd	98-01-1	5 ppm TWA	None	= 2 ppm TWA	None
е		20 mg/m³ TWA			

### Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
2-Furancarboxyaldehyd e	98-01-1	= 2 ppm TWA = 7.9 mg/m³ TWA	= 2 ppm TWA	2 ppm TWA	2 ppm TWAEV 7.9 mg/m³ TWAEV

## **Australia and Mexico**

Components	CAS-No.	Australia	Mexico
2-Furancarboxyaldehyde	98-01-1	7.9 mg/m³ TWA	= 2 ppm TWA
		2 ppm TWA	= 8 mg/m <sup>3</sup> TWA

## **Appropriate engineering controls**

**Engineering measures to reduce exposure:** Ensure adequate ventilation, especially in confined areas.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below

their respective threshold limit value.

Individual protection measures, such as personal protective equipment

## **Personal Protective Equipment**

Eye protection: Goggles

Skin and body protection: Long sleeved clothing

Gloves

Chemical resistant apron

**Respiratory protection:** Vapor respirator. Be sure to use an approved/certified respirator or equivalent.

**Hygiene measures:** Avoid contact with skin, eyes and clothing. When using, do not eat, drink or

smoke. Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:Appearance:Color:LiquidOily.Colorless.

Odor:TasteFormula:Almond-like.distinct caramel.C5H4O2

Molecular/Formula weight: Flammability: Flashpoint (°C/°F):

96.09 g/mole No information available 60°C (140°F) 68°C (154.4°F)

Flash Point Tested according to: Autoignition Temperature (°C/°F):

Closed cup 392°C (737.6°F)

Product code: F1098 Product name: 6 / 14

2-FURANCARBOXYALDEHYDE, REAGENT, ACS Open cup **Lower Explosion Limit (%):** 

2.1

Density (g/cm3):

VOC content (g/L): No information available

No information available

Viscosity:

No information available

Vapor pressure @ 20°C (kPa):

**Upper Explosion Limit (%):** Melting point/range(°C/°F): Decomposition temperature(°C/°F): No information available

19.3 -38.7°C (-37.7°F)

Boiling point/range(°C/°F): **Bulk density:** 

161.8°C (323.2°F) No information available

Specific gravity: pH:

1.1594 No information available

**Evaporation rate:** Vapor density:

No information available 3.3

Partition coefficient Odor threshold (ppm):

0.078-0.4 (n-octanol/water):

Log kow = 0.4

Miscibility: Solubility:

No information available Soluble in diethyl ether

Soluble in Acetone

Partially soluble in cold water

Soluble in Chloroform Soluble in Benzene Soluble in Ethanol

Solubility in water: 8.3% at 20°C

# 10. STABILITY AND REACTIVITY

### Reactivity

Sensitive to light

Turns yellow to brown on exposure to light and air

An exothermic polymerization of almost explosive violence can occur upon contact with strong mineral acids, or alkalies.

Incompatible with ammonia, aliphatic amines, and aromatic amines

Many coatings and plastic are attacked by furfural.

**Chemical stability** 

Stability: Stable under recommended storage conditions. Sensitive to light.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Excess Heat. Ignition sources. Exposure to light. Incompatible materials.

**Incompatible Materials:** Oxidizing agents

Acids Ammonia

aliphatic amines **Aromatic Amines** 

Bases

**Hazardous decomposition** 

products:

Carbon monoxide. Carbon dioxide.

Other Information

Corrosivity: No information available

Product code: F1098 **Product name:** 2-FURANCARBOXYALDEHYDE,

REAGENT, ACS

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### Special Remarks on Corrosivity: No information available

## 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

## **Principal Routes of Exposure:**

Skin. Ingestion. Inhalation. Eyes.

## **Acute Toxicity**

### **Component Information**

2-Furancarboxyaldehyde

CAS-No. 98-01-1

LD50/oral/rat = 125 mg/kg Oral LD50 Rat (LOLI)

65 mg/kg Oral LD50 Rat (RTECS)

50-100 (EU Chemicals Bureau IUCLID dataset)

LD50/oral/mouse = 400 mg/kg Oral LD50 Mouse

LD50/dermal/rabbit = 500-1000 mg/kg

**LD50/dermal/rat** = No information available

LC50/inhalation/rat = 175 ppm Inhalation LC50 Rat 6 h

756 mg/m<sup>3</sup> 1 h

**LC50/inhalation/mouse** = No infomation available

Other LD50 or LC50information = 370 ppm Inhalation LC50 Dog 6 h

950 mg/kg Oral LD50 Dog

541 mg/kg Oral LD50 Guinea Pig

## **Product Information**

LD50/oral/rat =

VALUE- Acute Tox Oral = 65 mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = 400 mg/kg

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = 500 mg/kg

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = 0.378 mg/l (4-hr)

**VALUE-Gas** = No information available

**VALUE-Dust/Mist** = No information available

LC50/Inhalation/mouse

**VALUE-Vapor** = No information available

**VALUE - Gas =** No information available

**VALUE - Dust/Mist =** No information available

Symptoms

Skin Contact: Toxic in contact with skin. It can be absorbed through the skin. Causes skin

Product code: F1098 Product name:

irritation.

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

**Inhalation** Fatal if inhaled. May cause dizziness and headache. May cause lightheadedness.

May cause fatigue. May cause dyspnea (difficulty breathing or shortness of breath). Symptoms may include coughing and shortness of breath. It may affect behavior/central nervous system (tremors). May cause itching of the throat. May cause numbness of the tongue and mucous membranes of the mouth. May cause loss of the sense of taste. Causes lacrimation. It may cause pulmonary edema.

**Ingestion** Toxic if swallowed. May cause gastrointestinal tract irritation with nausea,

vomiting, diarrhea. May cause abdominal pain. May affect the kidneys. May affect liver. May cause numbness of the mouth (lips and tongue). May cause loss of

taste. May affect behavior/central nervous system (ataxia). May affect

behavior/central nervous system (convulsions). May cause mydriasis (dilated

pupils).

**Aspiration hazard** No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Chronic Toxicity** Prolonged or repeated inhalation may affect the liver. Repeated exposure may

cause loss of sense of taste, numbness of the tongue and mucous membranes of the mouth, headache, tiredness, tremors. Prolonged or repeated contact may

cause skin allergy.

**Sensitization:** No information available.

Mutagenic Effects: Mutagenic effects in mammalian somatic cells

Experiments with bacteria and/or yeast have shown mutagenic effects

Carcinogenic effects: Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
2-Furancarboxyaldehyde	98-01-1	Monograph 63 [1995]	A3 Confirmed Animal Carcinogen with Unknown Relevance to Humans	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects:No information availableDevelopmental Effects:No information availableTeratogenic Effects:No information available

**Specific Target Organ Toxicity** 

Product code: F1098

**Product name:**2-FURANCARBOXYALDEHYDE,
REAGENT, ACS

STOT - single exposure

No information available.

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

**Target Organs:** 

Liver. Respiratory system. Skin.

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

**Ecotoxicity effects:** Aquatic environment.

2-Furancarboxyaldehyde - 98-01-1

Freshwater Fish Species Data: 13.4-19.3 mg/L LC50 Pimephales promelas 96 h static 1

16.79-26.35 mg/L LC50 Pimephales promelas 96 h flow-through 1

Water Flea Data: 29 mg/L EC50 Daphnia magna 24 h

Persistence and degradability: No information available

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

### 13. DISPOSAL CONSIDERATIONS

## **Disposal Methods**

## Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

## Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
2-Furancarboxyaldehyde	98-01-1	None	None	None	U125 Ignitable waste

## 14. TRANSPORT INFORMATION

DOT

UN-No: UN1199
Proper Shipping Name: Furaldehydes

Hazard Class: 6.1
Subsidiary Class 3
Packing group: II
Emergency Response Guide 132P

Number

Marine Pollutant

DOT RQ (lbs):

No data available

No information available

Special Provisions IB2, T7, TP2

Symbol(s): [DOT]: (R5) - Identifies a material that is a hazardous substance that has a

reportable quantity (RQ) of 5000 pounds (2270 Kilograms).

**Description:** UN1199, FURALDEHYDES, 6.1 (3), II

TDG (Canada)

UN-No: UN1199

Product code: F1098 Product name: 10 / 14

2-FURANCARBOXYALDEHYDE, REAGENT, ACS Proper Shipping Name: Furaldehydes

Hazard Class: 6.1 Subsidiary Risk: (3) Packing Group: II

Marine Pollutant No Information available

Description: UN1199, FURALDEHYDES, 6.1 (3), II

ADR

UN-No: UN1199
Proper Shipping Name: Furaldehydes

Hazard Class: 6.1
Packing Group: II
Subsidiary Risk: 3

**Description:** UN1199, FURALDEHYDES, 6.1 (3), II

IMO / IMDG

UN-No: UN1199
Proper Shipping Name: Furaldehydes

Hazard Class: 6.1
Subsidiary Risk: 3
Packing Group: II

Marine Pollutant No information available

EMS: F-E

**Description** UN1199, FURALDEHYDES, 6.1 (3), II

**RID** 

UN-No: UN1199
Proper Shipping Name: Furaldehydes

Hazard Class: 6.1 Subsidiary Risk: 3 Packing Group: II

**Description:** UN1199, FURALDEHYDES, 6.1 (3), II

**ICAO** 

UN-No: UN1199
Proper Shipping Name: Furaldehydes

Hazard Class: 6.1 Subsidiary Risk: 3 Packing Group: II

**Description:** UN1199, FURALDEHYDES, 6.1 (3), II

IATA

UN-No: UN1199
Proper Shipping Name: Furaldehydes

Hazard Class: 6.1
Subsidiary Risk: 3
Packing Group: II
ERG Code: 6F

Special Provisions No information available

**Description:** UN1199, FURALDEHYDES, 6.1 (3), II

## 15. REGULATORY INFORMATION

## International Inventories

Product code: F1098

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Г	C	CAC No	II C TCCA	KODEA KECI	Dhillianiass	Issues ENICC	CLUNIA	A	EINIEGO Na
- 1	Components	ICAS-No.	U.S. TSCA	KOREA KECL	Philippines	Japan ENCS	CHINA	Australia	EINECS-No.
- 1		1		_	• •		_		
- 1					(PICCS)			(AICS)	
L		I			(500)			(7.00)	

2-Furancarboxyaldehy 98-01-1	Present	Present	Present	Present (5)-40	Present	Present	Present
de		KE-17310					202-627-7

## **U.S. Regulations**

2-Furancarboxyaldehyde

Massachusetts RTK: Present

New Jersey RTK Hazardous Substance List: 0953

New Jersey - Discharge Prevention - List of Hazardous Substances: Present

Pennsylvania RTK: Environmental hazard

Pennsylvania RTK - Environmental Hazard List Present
Pennsylvania RTK - Special Hazardous Substances Present

Minnesota - Hazardous Substance List: Present

New York Release Reporting - List of Hazardous Substances:

= 1 lb RQ

Louisana Reportable Quantity List for Pollutants: Listed California Directors List of Hazardous Substances: Present

FDA - 21 CFR - Total Food Additives 175.105

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male	Female
		_		Reproductive	Reproductive
				Toxicity	Toxicity:
2-Furancarboxyaldehyde	98-01-1	Not Listed	Not Listed	Not Listed	Not Listed

#### CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
2-Furancarboxyalde hyde	98-01-1	= 5000 lb final RQ	None	None	None	None

## U.S. TSCA

Components			TSCA 8(d) -Health and Safety Reporting
2-Furancarboxyaldehyde	98-01-1	Not Applicable	06/01/1987 06/01/1997

## Canada

### WHMIS hazard class:

B3 Combustible liquid D1B Toxic materials D2B Toxic materials

Components
2-Furancarboxyaldehyde

WHIMHAZ B3 D1B D2B

## **Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Components WHMIS Ingredient Disclosure List -

2-Furancarboxyaldehyde	1 %
2 i dianoarboxyalacityac	1 /0

### Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
2-Furancarboxyaldehyde	98-01-1	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
2-Furancarboxyaldehyde	98-01-1	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject
		to Mandatory Reporting
2-Furancarboxyaldehyde	98-01-1	Not listed

### **EU Classification**

# R-phrase(s)

R21 - Harmful in contact with skin.

R40 - Limited evidence of a carcinogenic effect

R23/25 - Toxic by inhalation and if swallowed.

R36/37/38 - Irritating to eyes, respiratory system and skin.

## S -phrase(s)

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 1/2 - Keep locked up and out of the reach of children.

S36/37 - Wear suitable protective clothing and gloves.

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
2-Furancarboxyaldehyde	98-01-1	Xn; R21 T; R23/25 Xi; R36/37/38 Carc.Cat.3; R40	· · · · · · · · · · · · · · · · · · ·	S1/2 S26 S36/37 S45

The product is classified in accordance with Annex VI to Directive 67/548/EEC

### Indication of danger:

T - Toxic Xn - Harmful. Xi - Irritant.







# **16. OTHER INFORMATION**

Preparation Date:3/20/2017Revision Date:3/20/2017Prepared by:Sonia Owen

**Disclaimer:** All chemicals may pose unknown hazards and should be used with caution. This

Safety Data Sheet (SDS) applies only to the material as packaged. If this product

Product code: F1098 Product name:
2-FURANCARROXYALDEHYDE

is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet** 

Product code: F1098