



# SAFETY DATA SHEET

Preparation Date: 10/23/2019 Revision date 10/23/2019 Revision Number: G1

## 1. IDENTIFICATION

**Product identifier** 

Product code: T2060

Product Name: O-TOLUALDEHYDE, STABILIZED WITH 0.1 PERCENT HYDROQUINONE

Other means of identification

**Synonyms:** 2-Formyltoluene

2-Tolualdehyde Toluic aldehyde

o-Methylbenzaldehydero-Toluic aldehyde

o-Toluylaldehydee Benzaldehyde, 2-methyl-

CAS #: 529-20-4
RTECS # Not available
CI#: Not available

Recommended use of the chemical and restrictions on use

**Recommended use:**Uses advised against
No information available.
No information available.

<u>Supplier:</u> Spectrum Chemical Mfg. Corp

14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000

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

Emergency telephone number Chemtrec 1-800-424-9300

Contact Person:Tom Tyner (USA - West Coast)Contact Person:Ibad Tirmiz (USA - East Coast)

# 2. HAZARDS IDENTIFICATION

#### Classification

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

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

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1
Flammable liquids	Category 4

## Label elements

Warning

Product code: T2060 Product name: O-TOLUALDEHYDE,
STABILIZED WITH 0.1 PERCENT
HYDROQUINONE

#### **Hazard statements**

Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
Combustible liquid



# Hazards not otherwise classified (HNOC)

Not Applicable

## Other hazards

May be harmful if swallowed

## **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing mist or vapors Contaminated work clothing must not be allowed out of the workplace Keep away from heat/sparks/open flames/hot surfaces. — No smoking

## **Precautionary Statements - Response**

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 attention.

IF ON SKIN: Wash with plenty of water

Take off contaminated clothing and wash it before reuse If skin irritation or rash occurs: Get medical attention

## **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool

## **Precautionary Statements - Disposal**

Dispose of contents and container to an approved waste disposal plant in accordance with local, regional, national and international regulations as applicable

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%
o-Tolualdehyde	529-20-4	100

## 4. FIRST AID MEASURES

First aid measures

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.

Skin Contact: 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.

Product code: T2060 Product name: O-TOLUALDEHYDE, Page 2 / 12

STABILIZED WITH 0.1 PERCENT

**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.

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

unconscious person. Consult a physician if necessary.

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

**Symptoms** Causes serious eye irritation

Causes skin irritation

Irritating to respiratory system

May cause an allergic skin reaction

Headache tiredness Dizziness

May cause nausea and vomiting

#### 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: Dry chemical. Carbon dioxide (CO2). Water spray mist or

foam.

Unsuitable Extinguishing Media: High volume water jet. Do not use a solid (straight) water

stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Hazardous combustion products Carbon Monoxide, Carbon Dioxide.

Specific hazards Combustible material. Vapors may form explosive mixtures

with air. Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks). Container explosion may occur under fire conditions or when heated. When heated to decompositon it emits acrid smoke and irritating

fumes. May be ignited by heat, sparks or flames.

**Special Protective Actions for Firefighters** 

Specific Methods: Water mist may be used to cool closed containers For

larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out

**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

Product code: T2060 Product name: O-TOLUALDEHYDE, Page 3 / 12

STABILIZED WITH 0.1 PERCENT

## 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

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

contact with skin, eyes and clothing. Use personal protective equipment. 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. Remove all sources of ignition.

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

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), then place in a suitable chemical waste container.

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 clean non-sparking tools to collect absorbed material.

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. Remove all 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. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Do not breathe vapors or spray mist. Handle in accordance with good industrial hygiene and safety practice.

## Conditions for safe storage, including any incompatibilities

# **Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Keep away from heat and sources of ignition. Store in a segregated and approved area. Store away from incompatible materials.

## **Incompatible Materials:**

Strong bases

Strong oxidizing agents

Strong reducing agents

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Control parameters

# National occupational exposure limits

**United States** 

Product code: T2060 Product name: O-TOLUALDEHYDE, Page 4 / 12

STABILIZED WITH 0.1 PERCENT HYDROQUINONE

Com	onent	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
o-Tolua	ldehyde	529-20-4	None	None	None	None

#### Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
o-Tolualdehyde	529-20-4	None	None	None	None

#### **Australia and Mexico**

Component	CAS No	Australia	Mexico
o-Tolualdehyde	529-20-4	None	None

## Appropriate engineering controls

**Engineering measures to reduce exposure:** Ensure adequate ventilation. 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

Chemical resistant apron

Gloves

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

Respiratory protection is not necessary for normal handling. Good room

ventilation or use of local exhaust (fume hood) is sufficient. Use a vapor respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapor, inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to

use an approved/certified respirator or equivalent.

**Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product When using, do not eat, drink or smoke.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color:

Liquid No information available. Colorless to pale yellow.

Odor:TasteFormulaNo information available.No information available.C8H8O

Molecular/Formula weight (g/mole): Flammability (solid, gas) Flashpoint (°C/°F):

120.15 no data available 67°C/152.6°F

Flash Point Tested according to: Autoignition Temperature (°C/°F): Lower Explosion Limit (%):

Not available 375°C/707°F No information available

Product code: T2060 Product name: O-TOLUALDEHYDE, Page 5 / 12

STABILIZED WITH 0.1 PERCENT

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

Density (g/cm3):

No information available

No information available

No information available

No information available

VOC content (q/L):

Viscosity:

Vapor pressure @ 20°C (kPa):

No information available -35°C/ -31°F

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

199-200°C/390.2-392°F No information available

Specific gravity:

No information available 1.039

**Evaporation rate:** Vapor density:

No information available

Odor threshold (ppm): Partition coefficient

No information available (n-octanol/water): No information available

Miscibility: Solubility:

No information available Very slightly soluble in water

Soluble in Benzene

Soluble in Carbon tetrachloride

Soluble in Ethanol

10. STABILITY AND REACTIVITY

Reactivity

No information available

**Chemical stability** 

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Heat. Ignition sources. Incompatible materials. Conditions to avoid:

Strong bases **Incompatible Materials:** 

> Strong oxidizing agents Strong reducing agents

Hazardous decomposition

products:

Carbon monoxide. Carbon dioxide.

Other Information

No information available Corrosivity:

Special Remarks on Corrosivity: No information available

## 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

**Principal Routes of Exposure:** 

Skin. Eyes. Inhalation. Ingestion.

**Acute Toxicity** 

Product code: T2060

Product name: O-TOLUALDEHYDE, STABILIZED WITH 0.1 PERCENT **HYDROQUINONE** 

Page 6/12

## **Component Information**

o-Tolualdehyde

CAS No | 529-20-4

LD50/oral/rat = 1600 mg/kg Oral LD50 Rat

LD50/oral/mouse = 3200 mg/kg Oral LD50 Mouse

LD50/dermal/rabbit = 500 mg/24 hr Dermal LD50 Rabbit

LC50/inhalation/rat = No information available LC50/inhalation/rat = No information available LC50/inhalation/mouse = No information available

Other LD50 or LC50information = No information available

#### **Product Information**

LD50/oral/rat =

Value - Acute Toxicity = 1600 mg/kg

LD50/oral/mouse =

Value - Acute Tox = 3200 mg/kg

LD50/dermal/rabbit

Value - Acute Toxicity = 500 mg/24 Hr

LD50/dermal/rat

**VALUE - Acute Tox =** No information available

LC50/inhalation/rat

VALUE-Vapor = No information available VALUE-Gas = No information available VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

Product code: T2060

VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

**Symptoms** 

**Skin Contact:** Causes skin irritation. May cause allergic skin reaction.

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

**Inhalation** May cause irritation of respiratory tract.

**Ingestion** May be harmful if swallowed. May cause digestive (gastointestinal) tract irritation.

May cause headache. Ingestion may cause nausea, vomiting.

**Aspiration hazard** No information available.

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

**Chronic Toxicity** No information available.

**Sensitization:** May cause sensitization by skin contact.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
o-Tolualdehvde	529-20-4	Not listed	Not listed	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** 

STOT - single exposure
STOT - repeated exposure
Target Organs:

No information available.
No information available.

# 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

**Ecotoxicity effects:** Aquatic environment.

o-Tolualdehyde - 529-20-4

Fish LC50: =52.8mg/L (96h, Pimephales promelas)

Persistence and degradability: No information available

**Bioaccumulative potential:** No information available.

Mobility in soilNo information availableOther adverse effectsNo 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

Product code: T2060 Product name: O-TOLUALDEHYDE,
STABILIZED WITH 0.1 PERCENT

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
o-Tolualdehyde	529-20-4	None	None	None	None

## 14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Class
Packing group:
No information available

Number

Marine PollutantNo data availableDOT RQ (lbs):No information availableSpecial ProvisionsNo Information availableSymbol(s):No information availableDescription:No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Risk:
Packing Group:
Marine Pollutant
Description:
No information available
No information available
No Information available
No information available

**ADR** 

UN Number Not regulated

Proper Shipping Name:
Transport hazard class(es)
Packing group
Subsidiary Risk:

No information available
No information available
No information available

**IMDG** 

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Marine Pollutant

No information available
No information available
No information available
No information available

**RID** 

UN Number Not Regulated

Proper Shipping Name:
Transport hazard class(es)
Subsidiary Risk:
Packing group

No information available
No information available
No information available

ICAO (air)

Product code: T2060

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
No information available
Subsidiary Risk:
No information available

Packing Group: No information available

**IATA** 

UN Number Not Regulated

Proper Shipping Name:
Transport hazard class(es)
Subsidiary Risk:
Packing group
No information available

Response

Special Provisions No information available

# 15. REGULATORY INFORMATION

## **International Inventories**

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
o-Tolualdehyde	529-20-4	Not Listed	Not present	Present	Present (3)-2659,(3)-1 143	Present	Present	Present 208-452-2

## **U.S. Regulations**

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)

Component	CAS No	Carcinogen	<b>Developmental Toxicity</b>	Male	Female
				Reproductive	Reproductive
				Toxicity	Toxicity:
o-Tolualdehyde	529-20-4	Not Listed	Not Listed	Not Listed	Not Listed

## **CERCLA/SARA**

Component	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
o-Tolualdehyde	529-20-4	None	None	None	None	None

## U.S. TSCA

Component	CAS No	TSCA Section 5(a)2 - Chemicals	TSCA 8(d) -Health and Safety
· ·		With Significant New Use Rules	Reporting
		(SNURŠ)	
o-Tolualdehyde	529-20-4	Not Applicable	Not Applicable

#### Canada

WHIMIS 2015 - GHS Classifications

Product code: T2060 Product name: O-TOLUALDEHYDE, STABILIZED WITH 0.1 PERCENT

WHMIS 2015 Hazard Classification Information:

The WHMIS 2015 classification of this product has not been validated or reviewed yet.

Canada Hazardous Products Regulation This product has not been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

#### **DSL/NDSL**

Component	CAS No	Canada (DSL)	Canada (NDSL)
	529-20-4	Not Listed	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
o-Tolualdehyde	529-20-4	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject
		to Mandatory Reporting
o-Tolualdehyde	529-20-4	Not listed

#### **EU Classification**

#### EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
o-Tolualdehyde	529-20-4	

## EU - CLP (1272/2008)

## R-phrase(s)

R36 - Irritating to eyes

R38 - Irritating to skin

R43 - May cause sensitization by skin contact

# S -phrase(s)

S36 - Wear suitable protective clothing

S39 - Wear eye/face protection

S 7 - Keep container tightly closed.

S15 - Keep away from heat

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

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
o-Tolualdehyde	529-20-4		No information	

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

## Indication of danger:

Product code: T2060

Xi - Irritant



## **16. OTHER INFORMATION**

Preparation Date: 10/23/2019
Revision date 10/23/2019
Prepared 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 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: T2060