

# 500396 TOLYL ALDEHYDE FCC, PARA

Page 1 of 10 Revision Date: 09-07-2021

Print Date: 09-07-2021 Version # 04

1. IDENTIFICATION

**Product Description: TOLYL ALDEHYDE FCC, PARA** 

CAS# 104-87-0 3068 **FEMA Number** 

Other means of identification

Vigon Item # 500396

Recommended use Concentrated aromatic and flavor ingredient which may be used in flavor and fragrance

compounds according to legal and IFRA or FEMA GRAS/FDA guidelines.

Recommended restrictions For Manufacturing Use Only

Company 24 Hour Emergency Response Information

Vigon International, LLC INFOTRAC (ACCT# 78928);

1-800-535-5053 WITHIN THE U.S.A. 127 Airport Road 1-352-323-3500 OUTSIDE THE U.S.A. E. Stroudsburg, PA 18301

For information call: 570-476-6300

Web Site: www.vigon.com

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Vigon International, LLC

**Address** 127 Airport Road

E. Stroudsburg, PA 18301

**United States** 

570-476-6300 Telephone For information call:

Website www.vigon.com E-mail regulatory@vigon.com

**Emergency phone number INFOTRAC** (ACCT# 78928);

> 1-800-535-5053 WITHIN THE U.S.A. OUTSIDE THE U.S.A. 1-352-323-3500

2. HAZARD(S) IDENTIFICATION

Physical hazards Flammable liquids Category 4 Health hazards

Acute toxicity, oral Category 4

Skin corrosion/irritation Category 3

**Environmental hazards** Hazardous to the aquatic environment, acute Category 2

hazard

Label elements



Signal word Warning

Hazard statement Combustible liquid. Harmful if swallowed. Causes mild skin irritation. Toxic to aquatic life.



## 500396 TOLYL ALDEHYDE FCC, PARA

Revision Date: 09-07-2021 Page 2 of 10

Version # 04 Print Date: 09-07-2021

Precautionary statement

**Prevention** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid

release to the environment.

Response IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. If skin irritation

occurs: Get medical advice/attention. In case of fire: Use appropriate media to extinguish.

**Storage** Store in a well-ventilated place.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

After prolonged contact with highly porous materials, this product may spontaneously combust.

Supplemental information None.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Substances**

Chemical name	Common name and synonyms	CAS number	%
TOLYL ALDEHYDE PARA	4-Methylbenzaldehyde	104-87-0	100
	P-TOLUALDEHYDE		
	(4-METHYLBENZALDEHYDE)		
	P-FORMYLTOLUENE		

#### 4. FIRST-AID MEASURES

**Inhalation** If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or

persist

Skin contact Take off immediately all contaminated clothing. Get medical attention if irritation develops and

persists. Wash skin thoroughly with soap and water for several minutes.

Eye contact Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and

persists. Promptly wash eyes with plenty of water while lifting the eye lids.

Ingestion Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if

the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low

so that stomach vomit doesn't enter the lungs.

Most important

symptoms/effects, acute and

delayed

Direct contact with eyes may cause temporary irritation. Mild skin irritation.

Indication of immediate medical attention and special treatment

needed

Not available.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves. Show this safety data sheet to the doctor in attendance.

### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Water spray, fog, CO2, dry chemical, or alcohol resistant foam.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.



## 500396 TOLYL ALDEHYDE FCC, PARA

Revision Date: 09-07-2021 Page 3 of 10

Version # 04 Print Date: 09-07-2021

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire may produce irritating, corrosive and/or toxic gases. Porous material such as rags, paper, insulation, or organic clay may spontaneously combust when wetted with this material.

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection. Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.

Fire fighting

equipment/instructions

In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage. Ventilate closed spaces before entering them. Keep run-off water out of sewers and water sources. Dike for water control.

Specific methods

General fire hazards

Use water spray to cool unopened containers.

Static charges generated by emptying package in or near flammable vapor may cause flash fire.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Methods and materials for containment and cleaning up

Keep unnecessary personnel away. Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.

Large Spills: Dike the spilled material, where this is possible. Collect and dispose of spillage as indicated in section 13 of the SDS.

Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains.

Small Spills: Clean surface thoroughly to remove residual contamination. Wipe up with absorbent material (e.g. cloth, fleece).

Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. Stop the flow of material, if this is without risk. Cover with plastic sheet to prevent spreading.

**Environmental precautions** 

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid release to the environment. Retain and dispose of contaminated wash water. Contact local authorities in case of spillage to drain/aquatic environment.

#### 7. HANDLING AND STORAGE

Precautions for safe handling

Do not handle or store near an open flame, heat or other sources of ignition. Porous material such as rags, paper, insulation, or organic clay may spontaneously combust when wetted with this material. May auto-oxidize with sufficient heat generation to ignite if spread (as a thin film) or absorbed on porous or fibrous material. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Contaminated rags and cloths must be put in fireproof containers for disposal. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling.



## 500396 TOLYL ALDEHYDE FCC, PARA

Revision Date: 09-07-2021 Page 4 of 10

Version # 04 Print Date: 09-07-2021

Conditions for safe storage, including any incompatibilities

Do not store in direct sunlight. Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area. Keep under a

nitrogen blanket.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

This substance has no PEL, TLV, or other recommended exposure limit.

Biological limit values No biological exposure limits noted for the ingredient(s).

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Chemical resistant gloves.

Other Not available.

Respiratory protection Respiratory protection not required. If ventilation is insufficient, suitable respiratory protection must

be provided.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations When using do not smoke. Keep away from food and drink. 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 Refer to Spec Sheet

Physical state Liquid.
Form Liquid.

Color Refer to Spec Sheet

Odor Characteristic.
Odor threshold Not available.
pH Not available.
Melting point/freezing point 21.2 °F (-6 °C)

Initial boiling point and boiling

399.2 °F (204 °C) at 760.00 mmHg

range

Flash point 161.0 °F (71.7 °C) Closed Cup

Evaporation rate Not available.
Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 0.26 mm Hg at 25 °C

Vapor density 4.2

Relative density Not available.



# 500396 TOLYL ALDEHYDE FCC, PARA

Revision Date: 09-07-2021 Page 5 of 10

Print Date: 09-07-2021 Version # 04

Solubility(ies)

Insoluble Solubility (water) Partition coefficient 2.26

(n-octanol/water)

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

Other information

**Density** 1.02 g/cm3 estimated at 17 °C

**Explosive properties** Not explosive.

Flammability class Combustible IIIA estimated

Molecular formula C8-H8-O Molecular weight 120.16 g/mol Oxidizing properties Not oxidizing. Specific gravity 1.02 at 25 °C

#### 10. STABILITY AND REACTIVITY

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Porous material such as rags, paper, insulation, or organic clay may spontaneously combust when

wetted with this material.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products if stored and handled as indicated.

#### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation No adverse effects due to inhalation are expected.

Skin contact Causes mild skin irritation.

Direct contact with eyes may cause temporary irritation. Eye contact

Ingestion Harmful if swallowed. Symptoms related to the

physical, chemical and toxicological characteristics Mild skin irritation.

Information on toxicological effects

Harmful if swallowed. Acute toxicity



## 500396 TOLYL ALDEHYDE FCC, PARA

Revision Date: 09-07-2021 Page 6 of 10

Version # 04 Print Date: 09-07-2021

Product Species Test Results

TOLYL ALDEHYDE PARA (CAS 104-87-0)

Acute

Dermal

LD50 Rabbit 2500 mg/kg

**Skin corrosion/irritation** Causes mild skin irritation.

Harmful if absorbed through skin.

Skin Irritation

rabbit: Irritant. (Draize test)

This product has not been tested. The statement has been derived from products of a similar

structure and composition. Literature data.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Eye Irritation

rabbit: Irritant. (Draize test). Literature data

Respiratory or skin sensitization

**Respiratory sensitization** Due to partial or complete lack of data the classification is not possible.

**Skin sensitization** Due to partial or complete lack of data the classification is not possible.

Sensitization: Guinea pig maximization test/guinea pig: Non-sensitizing. (OECD Guideline 406)

Germ cell mutagenicity Genetic toxicity: The substance was not mutagenic in bacteria. Due to partial or complete lack of

data the classification is not possible.

**Carcinogenicity** Due to partial or complete lack of data the classification is not possible.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

**Reproductive toxicity**Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Due to partial or complete lack of data the classification is not possible.

**Aspiration hazard** Due to partial or complete lack of data the classification is not possible.

12. ECOLOGICAL INFORMATION

**Ecotoxicity** Toxic to aquatic life.



# 500396 TOLYL ALDEHYDE FCC, PARA

Revision Date: 09-07-2021 Page 7 of 10

Version # 04 Print Date: 09-07-2021

Product		Species	Test Results
TOLYL ALDEHYDE	PARA (CAS 104-87-	0)	
Aquatic			
Acute			
Fish	LC50	Leuciscus idus (Golden orfe)	> 22 - < 46 mg/l, 96 hours DIN 38412 Part 15 static. The details of the toxic effect relate to the nomial concentration.
Other	EC10	Bacterium	138, 0.5 hours DIN 38412 Part 27 (draft) aerobic. The details of the toxic effect relate to the nominal concentration. The product has low solubility in the test medium. An aqueous solution prepared

Persistence and degradability Environmental fate and transport

Biodegradation

Test method: (aerobic), activated sludge Degree of elimination: > 70% (28 d)

Evaluation: Readily biodegradable (according to OECD criteria)

Easily eliminated from water.

The product has not been tested. The statement has been derived from products of a similar

with solubilizers has been tested.

structure and composition.

Bioaccumulation

Significant accumulation in organisms is not to be expected.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

2.26

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. DISPOSAL CONSIDERATIONS

**Disposal instructions**Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain

into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or

used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code Not established.

Waste from residues / unused

products

Empty containers or liners may retain some product residues. This material and its container must

be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.



# 500396 TOLYL ALDEHYDE FCC, PARA

Revision Date: 09-07-2021 Page 8 of 10

Version # 04 Print Date: 09-07-2021

#### 14. TRANSPORT INFORMATION

**ADN** 

Not regulated as dangerous goods.

**ADR** 

Not regulated as dangerous goods.

**RID** 

Not regulated as dangerous goods.

DOT BULK

UN number NA1993

Proper shipping name COMBUSTIBLE LIQUID, N.O.S. (TOLYL ALDEHYDE PARA)

Hazard class Combustible liq

Packing group III

**Environmental hazards** 

Marine pollutantNoPackaging exceptions150Packaging bulk241Labels requiredNone

DOT

**NON-BULK** 

Not regulated as dangerous goods.

**IATA** 

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

### 15. REGULATORY INFORMATION

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

**Toxic Substances Control Act (TSCA)** 

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.



# 500396 TOLYL ALDEHYDE FCC, PARA

Revision Date: 09-07-2021 Page 9 of 10

Version # 04 Print Date: 09-07-2021

SARA 311/312 Hazardous

Yes

chemical

Classified hazard Flammable (gases, aerosols, liquids, or solids)

**categories** Acute toxicity (any route of exposure)

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

#### 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

 Issue date
 11-24-2015

 Revision date
 09-07-2021

Version # 04

HMIS® ratings Health: 1

Flammability: 2 Physical hazard: 0

List of abbreviations ACGIH: American Conference of Governmental Industrial Hygienists.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AICIS: Australian Inventory of Industrial Chemicals.

CAS: Chemical Abstract Service.

IARC: International Agency for Research on Cancer.

IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk.

IMDG: International Maritime Dangerous Goods.

MARPOL: International Convention for the Prevention of Pollution from Ships.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short term exposure limit. TWA: Time Weighted Average.



## 500396 TOLYL ALDEHYDE FCC, PARA

Revision Date: 09-07-2021 Page 10 of 10

Version # 04 Print Date: 09-07-2021

#### Disclaimer

Vigon International, LLC cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. The above information relates only to this product and not to its use in combination with any other material or any particular process and is designed only as guidance for the safe handling, use, processing, storage, transportation, and disposal and should not be considered as a guarantee or quality specification. This product has not been evaluated for safe use in e-cigarettes or any vaping application where the product(s) is/are intentionally vaporized and inhaled. Vigon International, Inc. has performed no testing on these products in e-cig/vaping applications. It is the sole responsibility of the individual(s) purchasing this product to assess its' safety in the final application. The above information relates only to this product and not to its use in combination with any other material or any particular process and is designed only as guidance for the safe handling, use, processing, storage, transportation, disposal, and should not be considered as a guarantee or quality specification. The above information is based on data provided by and collected from recognized sources such as distributors, manufacturers, and technical groups and is considered to be accurate to the best of Vigon's knowledge as of the date of this document. It is the responsibility of the user to review all safety information about this product and determine its safety and suitability in their own processes and operations. Appropriate warnings and safe handling procedures should be provided to all handlers and users, taking into account the intended use and the specific conditions and factors relating to such use in accordance with all applicable laws and regulations.

**Revision information** 

This document has undergone significant changes and should be reviewed in its entirety.