

# SAFETY DATA SHEET TYZOR AA 75

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

## 1. Identification

## **Product identifier**

Product name TYZOR AA 75

## Recommended use of the chemical and restrictions on use

**Application** Catalyst. / Cross-linking agent. / Adhesion promoters For industrial use only.

## Details of the supplier of the safety data sheet

Manufacturer Dorf Ketal Specialty Catalysts LLC

11200 Westheimer Road

Suite 400

Houston, Texas 77042 Phone= +1 713 343 2377 Fax= +1 832 649 7615 Email: ehss@dorfketal.com

#### **Emergency telephone number**

Emergency telephone For Chemical Emergency ONLY (in the case of fire, leak, spill, exposure or accident) call

CHEMTREC at +1(703) 527- 3887 or CHEMTREC India at 000-800-100-7141. For ALL other emergencies call DORF KETAL Emergency Control Room +91 2838 660532 & +91 260

2668784 .

## 2. Hazard(s) identification

## Classification of the substance or mixture

OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Communication Standard (29

CFR 1910.1200).

Physical hazards Flam. Liq. 2 - H225

**Health hazards** Eye Irrit. 2A - H319 STOT SE 3 - H336

Environmental hazards Not Classified

## Label elements

## Hazard symbols





Signal word Danger

**Hazard statements** H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

## **TYZOR AA 75**

Precautionary statements P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.

P240 Ground/ bond container and receiving equipment.

P241 Use explosion-proof electrical equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing vapor/ spray.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/ shower.

P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/ container in accordance with national regulations.

Contains Propan-2-ol

#### Other hazards

This product does not contain any substances classified as PBT or vPvB.

## 3. Composition/information on ingredients

## **Mixtures**

Propan-2-ol 20-25%

CAS number: 67-63-0

## Classification

Flam. Liq. 2 - H225 Eye Irrit. 2A - H319 STOT SE 3 - H336

The full text for all hazard statements is displayed in Section 16.

## 4. First-aid measures

## Description of first aid measures

General information Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical

personnel.

**Inhalation** Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention. Place unconscious person on their side in the recovery

position and ensure breathing can take place.

Ingestion Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if

the affected person feels sick as vomiting may be dangerous. Never give anything by mouth to an unconscious person. Place unconscious person on their side in the recovery position and ensure breathing can take place. Keep affected person under observation. Get medical

attention if symptoms are severe or persist.

**Skin Contact** Rinse with water.

Eye contact Rinse with water. Do not rub eye. Remove any contact lenses and open eyelids wide apart.

Get medical attention if any discomfort continues.

**Protection of first aiders** First aid personnel should wear appropriate protective equipment during any rescue.

## **TYZOR AA 75**

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

Inhalation May cause drowsiness or dizziness.

Eye contact Causes serious eye irritation.

## Indication of immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

## 5. Fire-fighting measures

## **Extinguishing media**

Suitable extinguishing media The product is flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder

or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing

media

Water spray. Water.

#### Special hazards arising from the substance or mixture

Specific hazards Containers can burst violently or explode when heated, due to excessive pressure build-up.

> Flammable liquid and vapour. Vapors may be ignited by a spark, a hot surface or an ember. Vapors may form explosive mixtures with air. Fire-water run-off in sewers may create fire or

explosion hazard.

Hazardous combustion

products

None known.

## Advice for firefighters

Protective actions during

firefighting

Avoid breathing fire gases or vapors. Evacuate area. Keep upwind to avoid inhalation of gases, vapors, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapors and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment

for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

#### 6. Accidental release measures

# Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be

> taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material. Evacuate area. Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage. Promptly remove any clothing that becomes

> contaminated. Avoid inhalation of vapors and spray/mists. Use suitable respiratory protection

if ventilation is inadequate.

**Environmental precautions** 

**Environmental precautions** Inform respective authorities in case of seepage into water course or sewage system.Do not

allow to enter sewers/ surface or ground water.

## Methods and material for containment and cleaning up

## **TYZOR AA 75**

## Methods for cleaning up

Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Eliminate all ignition sources if safe to do so. No smoking, sparks, flames or other sources of ignition near spillage. Do not allow material to enter confined spaces, due to the risk of explosion. Absorb small quantities with paper towels and evaporate in a safe place. Once evaporation is complete, place paper in a suitable waste disposal container and seal securely. Large Spillages: If the product is soluble in water, dilute the spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage with an inert, dry material and place it in a suitable waste disposal container. The contaminated absorbent may pose the same hazard as the spilled material. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.

#### Reference to other sections

For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

## 7. Handling and storage

## Precautions for safe handling

#### Usage precautions

Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid the formation of mists. The product is flammable. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

# Advice on general occupational hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.

## Conditions for safe storage, including any incompatibilities

Storage precautions

Store away from incompatible materials (see Section 10). Store locked up. Keep away from oxidizing materials, heat and flames. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Moisture-sensitive material. Once opened, container should be kept under nitrogen blanketing to prevent decomposition.

## Storage class

Flammable liquid storage.

# Specific end uses(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.

#### 8. Exposure controls/Personal protection

## Propan-2-ol (CAS: 67-63-0)

Ingredient comments PEL, LTV 980 mg/m³, 400 ppm REL, STV 1225 mg/m³, 500 ppm LTV 980 mg/m³,

400 ppm TLV(USA), STV 984 mg/m³, 400 ppm LTV 492 mg/m³, 200 ppm Skin; BEI

Biological limit values BEI (USA) 40 mg/L; Medium: urine; Time: end of shift at end of workweek,

Parameter: Acetone (background, nonspecific)

#### Exposure controls

## **TYZOR AA 75**

## Protective equipment





Appropriate engineering

controls

Provide adequate general and local exhaust ventilation. Ensure the ventilation system is regularly maintained and tested. Good general ventilation should be adequate to control worker exposure to airborne contaminants. Observe any occupational exposure limits for the

product or ingredients.

Eye/face protection Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-

face respirator may be required instead.

**Hand protection** No specific hand protection recommended.

Other skin and body

protection

Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene measures Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke

when using this product.

Respiratory protection Ensure all respiratory protective equipment is suitable for its intended use and is NIOSH

approved. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with OSHA 1910.134. Full face mask respirators with replaceable filter cartridges should comply with OSHA 1910.134. Half mask and quarter mask respirators with replaceable filter cartridges should comply with OSHA 1910.134.

**Environmental exposure** 

controls

Keep container tightly sealed when not in use.

# 9. Physical and chemical properties

# Information on basic physical and chemical properties

Appearance Liquid.

Color Yellow to red

Odor Aromatic.

Melting point -70°C

**Initial boiling point and range** 85-90°C

Flash point 14°C

Vapor pressure 3.5 kPa @ °C

Relative density 0.98 @ 20°C

Solubility(ies) hydrolyzes in water

Viscosity 8 mPa s, Dynamic @ °C

**Explosive properties** Not considered to be explosive.

Other information No data available.

#### 10. Stability and reactivity

**Reactivity** See the other subsections of this section for further details.

Stable at normal ambient temperatures and when used as recommended. Stable under the

prescribed storage conditions.

## **TYZOR AA 75**

Possibility of hazardous

reactions

The following materials may react strongly with the product: Oxidizing agents.

Conditions to avoid Avoid heat, flames and other sources of ignition. Containers can burst violently or explode

when heated, due to excessive pressure build-up. Static electricity and formation of sparks

must be prevented.

Materials to avoid Oxidizing materials. Acids - oxidizing.

Hazardous decomposition

products

Under normal conditions of storage and use, hazardous decomposition products should not

be produced.

# 11. Toxicological information

## Information on toxicological effects

Acute toxicity - oral

**Summary** Based on available data the classification criteria are not met.

Acute toxicity - dermal

**Summary** Based on available data the classification criteria are not met.

**ATE dermal (mg/kg)** 150,000.0

Acute toxicity - inhalation

**Summary** Based on available data the classification criteria are not met.

ATE inhalation (vapours mg/l) 1,500.0

Skin corrosion/irritation

**Summary** Based on available data the classification criteria are not met.

Serious eye damage/irritation

**Summary** Causes serious eye irritation.

Respiratory sensitization

**Summary** Based on available data the classification criteria are not met.

Skin sensitization

**Summary** Based on available data the classification criteria are not met.

Germ cell mutagenicity

**Summary** Based on available data the classification criteria are not met.

Carcinogenicity

**Summary** Based on available data the classification criteria are not met.

IARC carcinogenicity 67-63-0 Propan-2-ol 3, TLV-A4

NTP carcinogenicity 67-63-0: Propan-2-ol : R

OSHA Carcinogenicity Not listed.

Reproductive toxicity

**Summary** Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

**Summary** May cause drowsiness or dizziness.

Target organs Central nervous system

## **TYZOR AA 75**

## Specific target organ toxicity - repeated exposure

**Summary** Based on available data the classification criteria are not met.

Aspiration hazard

**Summary** Based on available data the classification criteria are not met.

## 12. Ecological information

**Ecotoxicity** Not regarded as dangerous for the environment.

Acute aquatic toxicity

**Summary** Based on available data the classification criteria are not met.

Chronic aquatic toxicity

**Summary** Based on available data the classification criteria are not met.

Persistence and degradability

Persistence and degradability The degradability of the product is not known.

Bioaccumulative potential

Bio-Accumulative Potential No data available on bioaccumulation.

Mobility in soil

Mobility No data available.

Other adverse effects

Other adverse effects None known.

## 13. Disposal considerations

## Waste treatment methods

General information The generation of waste should be minimized or avoided wherever possible. Reuse or recycle

products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product

residues and hence be potentially hazardous.

**Disposal methods**Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a

licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents. Incineration or landfill should only be considered when recycling is not feasible. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal

legislation and any local authority requirements.

## 14. Transport information

**UN Number** 

**UN No. (TDG)** 1993

**UN No. (IMDG)** 1993

**UN No. (IATA)** 1993

**UN No. (DOT)** UN1993

UN proper shipping name

## **TYZOR AA 75**

Proper shipping name (TDG) FLAMMABLE LIQUID, N.O.S.(mixture contains, Propan-2-ol)

Proper shipping name (IMDG) FLAMMABLE LIQUID, N.O.S.(mixture contains, Propan-2-ol)

Proper shipping name (DOT) FLAMMABLE LIQUID, N.O.S.(mixture contains, Propan-2-ol)

Proper shipping name (IATA) FLAMMABLE LIQUID, N.O.S.(mixture contains, Propan-2-ol)

Transport hazard class(es)

DOT hazard class 3
DOT hazard label 3
TDG class 3
TDG label(s) 3
IMDG Class 3

**DOT transport labels** 



## Transport labels



IATA class/division 3

Packing group

TDG Packing Group II
IMDG packing group II
DOT packing group II
IATA packing group III

## **Environmental hazards**

**Environmentally Hazardous Substance** 

No.

Special precautions for user

IMDG Code segregation 18. Alkalis

group

**EmS** F-E, S-E

Transport in bulk according to Not applicable.

and the IBC Code

15. Regulatory information

Annex II of MARPOL 73/78

Regulatory References OSHA Hazard Communication Standard 29 CFR §1910.1200

**Chemical safety assessment** No chemical safety assessment has been carried out.

## **TYZOR AA 75**

## **US Federal Regulations**

## SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None of the ingredients are listed or exempt.

## CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

67-63-0: Propan-2-ol

## SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are listed or exempt.

## SARA 313 Emission Reporting

67-63-0: Propan-2-ol

#### **CAA Accidental Release Prevention**

None of the ingredients are listed or exempt.

#### FDA - Essential Chemical

None of the ingredients are listed or exempt.

## FDA - Precursor Chemical

None of the ingredients are listed or exempt.

# SARA (311/312) Hazard Categories

Flammable (gases, aerosols, liquids or solids)
Serious eye damage or eye irritation
Specific target organ toxicity (single or repeated exposure)

## **OSHA Highly Hazardous Chemicals**

None of the ingredients are listed or exempt.

## **US State Regulations**

#### California Proposition 65 Carcinogens and Reproductive Toxins

None of the ingredients are listed or exempt.

## California Air Toxics "Hot Spots" (A-I)

None of the ingredients are listed or exempt.

#### California Air Toxics "Hot Spots" (A-II)

None of the ingredients are listed or exempt.

## California Directors List of Hazardous Substances

None of the ingredients are listed or exempt.

## Massachusetts "Right To Know" List

None of the ingredients are listed or exempt.

## Rhode Island "Right To Know" List

None of the ingredients are listed or exempt.

## Minnesota "Right To Know" List

None of the ingredients are listed or exempt.

## New Jersey "Right To Know" List

None of the ingredients are listed or exempt.

## Pennsylvania "Right To Know" List

None of the ingredients are listed or exempt.

## **TYZOR AA 75**

#### **Inventories**

## **US-TSCA**

All the ingredients are listed or exempt.

## US - TSCA 12(b) Export Notification

Not listed.

#### 16. Other information

Abbreviations and acronyms used in the safety data sheet

TDG: The transport of dangerous goods act

IATA: International air transport association.

ICAO: Technical instructions for the safe transport of dangerous goods by air.

IMDG: International maritime dangerous goods.

CAS: Chemical abstracts service. ATE: Acute toxicity estimate.

LC₅o: Lethal concentration to 50 % of a test population.

LD<sub>50</sub>: Lethal dose to 50% of a test population (median lethal dose).

EC<sub>50</sub>: 50% of maximal effective concentration.

PBT: Persistent, bioaccumulative and toxic substance. vPvB: Very persistent and very bioaccumulative.

Classification abbreviations

and acronyms

Flam. Liq. = Flammable liquid Eye Irrit. = Eye irritation

STOT SE = Specific target organ toxicity-single exposure

**Training advice** Only trained personnel should use this material.

Revision comments Minor change, version not moved. Section 1 update. Segregation Code Inclusion

Revision date 3/7/2022

Revision 1

Supersedes date 11/20/2018

**SDS No.** 4835

Hazard statements in full H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

...., ....,

TYZOR AA 75\_300134\_SDS\_US\_en\_MAR-07-2022

NFPA - health hazard 1

NFPA - flammability hazard 3

NFPA - instability hazard 0

ACA HMIS Health rating. 1

ACA HMIS Flammability 3

rating.

File Name:

ACA HMIS Physical hazard 0

rating.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.