

# SAFETY DATA SHEET

# **1. PRODUCT AND COMPANY IDENTIFICATION:**

**PRODUCT CODE** 

A0190 ACETAL

**PRODUCT NAME** 

**SUPPLIER** 

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# FOR EMERGENCIES CALL CHEMTREC:

800-424-9300 (24-HOURS)

# 2. HAZARD IDENTIFICATION:

# Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS07

Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2 H319 Causes serious eye irritation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Irritant

Irritating to eyes and skin.



Highly flammable

Highly flammable.

Information concerning particular hazards for human and environment: Not applicable.

Label elements

A0190-ACETAL

#### **GHS** label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS).

#### Hazard pictograms



Signal word Danger

#### **Hazard statements**

Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation.

#### **Precautionary statements**

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

Use explosion-proof electrical/ventilating/lighting/equipment.

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see on this label).

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

# Classification system: NFPA ratings (scale 0 - 4)



 $\begin{aligned} \text{Health} &= 1\\ \text{Fire} &= 3\\ \text{Reactivity} &= 0 \end{aligned}$ 

# HMIS-ratings (scale 0 - 4)

	Health = 1
HEALTH 1	$\Pi$ eann $= 1$
nine a	Fire = 3
FIRE 3	
REACTIVITY 0	Reactivity $= 0$

Other hazards Results of PBT and vPvB assessment PBT: Not applicable.

vPvB:

Not applicable.

# 3. COMPOSITION AND INFORMATION ON INGREDIENTS:

**Chemical characterization: Substances CAS No. Description** 105-57-7 1,1-diethoxyethane

**Identification number(s) EC number:** 203-310-6

**Index number:** 605-015-00-1

# 4. FIRST-AID GUIDE:

**Description of first aid measures After inhalation:** In case of unconsciousness place patient stably in side position for transportation.

#### After skin contact:

Immediately wash with water and soap and rinse thoroughly.

#### After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

#### After swallowing:

If symptoms persist consult doctor.

# Most important symptoms and effects, both acute and delayed

No further relevant information available.

**Indication of any immediate medical attention and special treatment needed** No further relevant information available.

# **5. FIRE-FIGHTING GUIDE:**

# Extinguishing media

Suitable extinguishing agents:

CO2 or extinguishing powder. Fight larger fires with alcohol resistant foam. For safety reasons unsuitable extinguishing agents: Water with full jet

# Special hazards arising from the substance or mixture

No further relevant information available.

Advice for firefighters Protective equipment:

No special measures required.

#### **Additional information**

Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. It must not enter the sewage system.

#### 6. ACCIDENTAL RELEASE GUIDE:

**Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away.

Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

#### Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

#### **Reference to other sections**

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

# 7. H ANDLING AND STORAGE:

#### Precautions for safe handling

No special precautions are necessary if used correctly.

#### Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

# Conditions for safe storage, including any incompatibilities Storage:

**Requirements to be met by storerooms and receptacles:** Store in a cool location.

**Information about storage in one common storage facility:** Not required.

#### Further information about storage conditions:

Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.

#### **Specific end use(s)**

No further relevant information available.

# 8. EXPOSURE AND PERSONAL PROTECTION:

#### Additional information about design of technical systems:

No further data; see item 7.

#### **Control parameters**

**Components with limit values that require monitoring at the workplace:** Not required.

# Additional information:

The lists that were valid during the creation were used as a basis.

#### **Exposure controls**

**Personal protective equipment: General protective and hygienic measures:** Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

# **Breathing equipment:**

Not required.

# **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material should be based on consideration of the penetration times, rates of diffusion and the degradation

#### **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

# Penetration time of glove material

The exact break through time has to be determined by the manufacturer of the protective gloves and has to be observed.

# Eye protection:



# 9. PHYSICAL AND CHEMICAL PROPERTIES:

# Information on basic physical and chemical properties

mor mution on suste physical and encimear	Pro
General Information	
Appearance:	
Form:	]
Color:	(
Odor:	]
Odour threshold:	]
pH-value:	]
Change in condition	
Melting point/Melting range:	-
Boiling point/Boiling range:	
Flash point:	
Flammability (solid, gaseous):	]
Ignition temperature:	
Decomposition temperature:	]
Auto igniting:	]
	]
Danger of explosion:	
Explosion limits:	
Lower:	
Upper:	
Vapor pressure at 20 °C (68 °F):	1
Density at 20 °C (68 °F):	
Relative density	]
Vapour density	]
Evaporation rate	]
Solubility in / Miscibility with Water at 20	
°C (68 °F):	4
Partition coefficient (n-octanol/water):	]
Viscosity:	
Dynamic:	]
Kinematic:	]
Organic solvents:	(
Other information	]

Fluid Colorless Fruit-like Not determined. Not determined. -100 °C (-148 °F) 102 °C (216 °F)

102 °C (216 °F) -21 °C (-6 °F) Not applicable. 230 °C (446 °F) Not determined. Not determined. Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.

1.6 Vol %
10.4 Vol %
20.3 hPa (15 mm Hg)
0.83 g/cm<sup>3</sup> (6.926 lbs/gal)
Not determined.
Not determined.
Not determined.

46 g/l

Not determined.

Not determined. Not determined. 0.0 % No further relevant information available.

# **10. STABILITY AND REACTIVITY:**

Reactivity Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

#### **Possibility of hazardous reactions**

No dangerous reactions known.

#### **Conditions to avoid**

No further relevant information available.

#### **Incompatible materials:**

No further relevant information available.

# Hazardous decomposition products:

No dangerous decomposition products known.

# **11. TOXICOLOGICAL INFORMATION:**

Information on toxicological effectsAcute toxicity:LD/LC50 values that are relevant for classification:105-57-7 1,1-diethoxyethaneOralLD504600 mg/kg (rat)

**Primary irritant effect: On the skin:** Irritant to skin and mucous membranes.

**On the eye:** Irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information: Carcinogenic categories IARC (International Agency for Research on Cancer) Substance is not listed.

**NTP (National Toxicology Program)** Substance is not listed.

# **OSHA-Ca** (Occupational Safety & Health Administration) Substance is not listed.

# **12. ECOLOGICAL INFORMATION:**

**Toxicity Aquatic toxicity:** No further relevant information available.

#### Persistence and degradability

No further relevant information available.

#### **Bioaccumulative potential**

No further relevant information available.

**Mobility in soil** No further relevant information available.

#### Additional ecological information: General notes:

Water hazard class 2 (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

# **Results of PBT and vPvB assessment PBT:** Not applicable.

**vPvB:** Not applicable.

# Other adverse effects

No further relevant information available.

# **13. DISPOSAL RECOMMENDATIONS:**

# Waste treatment methods

#### **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

# **Uncleaned packaging:**

#### **Recommendation:**

Disposal must be made according to official regulations.

# **14. TRANSPORTATION INFORMATION:**

UN-Number	
DOT, ADR, IMDG, IATA	UN1088
UN proper shipping name	
DOT	Acetal
ADR	1088 Acetal
	1088 ACETAL
IMDG, IATA	ACETAL
Transport hazard class(es)	

DOT	
Hanness S.M.	
Class	2 Flammable limite
Label	3 Flammable liquids
	3
ADR	
Class	3 (F1) Flammable liquids
Label	3
	5
IMDG, IATA	
Class	3 Flammable liquids
Label	3
Packing group	
DOT, ADR, IMDG, IATA	П
	11
Environmental hazards:	27
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Danger code (Kemler):	33
EMS Number:	F-E,S-D
Transport in bulk according to Annex II	
of	Not applicable.
MARPOL73/78 and the IBC Code	11
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 5 L
	1 0
	On cargo aircraft only: 60 L
ADR	
<b>Excepted quantities (EQ)</b>	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
Prov Annumers (E.X.)	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per unter packaging: 500 ml
UN UM a dal Damilati U-	
UN "Model Regulation":	UN1088, Acetal, 3, II

#### **15. REGULATORY INFORMATION:**

Safety, health and environmental regulations/legislation specific for the substance or mixture Sara

Section 355 (extremely hazardous substances): Substance is not listed.

Section 313 (Specific toxic chemical listings): Substance is not listed.

**TSCA** (Toxic Substances Control Act): Substance is listed.

#### Proposition 65

Chemicals known to cause cancer: 75-07-0 acetaldehyde WARNING! This product contains chemicals known to the state of California to cause cancer Acetaldehyde Acetaldehyde CAS-no. 75-07-0 (0.02-0.2% by weight)

**Chemicals known to cause reproductive toxicity for females:** Substance is not listed.

**Chemicals known to cause reproductive toxicity for males:** Substance is not listed.

**Chemicals known to cause developmental toxicity:** Substance is not listed.

#### **Carcinogenic categories**

**EPA (Environmental Protection Agency)** Substance is not listed.

**TLV (Threshold Limit Value established by ACGIH)** Substance is not listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

#### GHS label elements

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#### Hazard pictograms



Signal word Danger

#### **Hazard statements**

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#### **Precautionary statements**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Use explosion-proof electrical/ventilating/lighting/equipment.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Specific treatment (see on this label).
Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

# **16. OTHER INFORMATION:**

The information in this SDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond M&U's control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume liability for loss, damage, or expense arising out of the products improper use. No warranty expressed or implied regarding the product described herein will be created by or inferred from any statement or omission in the SDS. Various federal, state, or provincial agencies may have specific regulations concerning the transportation, handling, storage, use, or disposal of this product which may not be reflected in the SDS. The user should review these regulations to ensure full compliance.

Prepared By: M&U International LLC

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