

# Material Safety Data Sheet TWEEN® 20

#### **SECTION 1.1 – PRODUCT IDENTIFICATION**

## **SECTION: 1.2 COMPANY IDENTIFICATION**

Company Name: Indenta Chemicals (India) Pvt. Ltd.

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Mumbai 400 093, India

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# **SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS**

Name	CAS#	% by Weight	
TWEEN® 20	9005-64-5	100	

Toxicological Data on Ingredients: No Data Available

## **SECTION 3: HAZARD IDENTIFICATION**

#### 3.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

### 3.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

## 3.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## **SECTION 4: FIRST AID MEASURES**

### 4.1 Description of first-aid measures

#### If inhaled

After inhalation: fresh air. In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with

water/ shower.

In case of eye contact

# Indenta Chemicals (India) Pvt. Ltd.

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After eye contact: rinse out with plenty of water. Remove contact lenses.

#### If swallowed

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

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

The most important known symptoms and effects are described in the labelling (see section

3.2) and/or in section 11

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

No data available

#### **SECTION 5: FIRE AND EXPLOSION DATA**

# 5.1 Extinguishing media

# Suitable extinguishing media

Water Foam Carbon dioxide (CO2) Dry powder

# Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

# 5.2 Special hazards arising from the substance or mixture

Carbon oxides

Combustible.

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

## 5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

#### 5.4 Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

## 6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

#### **6.2 Environmental precautions**

Do not let product enter drains.

## 6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®).

Dispose of properly. Clean up affected area.

#### 6.4 Reference to other sections

For disposal see section 13.

## **SECTION7: HANDLING AND STORAGE**

# 7.1 Precautions for safe handling

For precautions see section 3.2.

### 7.2 Conditions for safe storage, including any incompatibilities

Tightly closed.

## 8.1 Control parameters

# Ingredients with workplace control parameters

## 8.2 Exposure controls

## **Appropriate engineering controls**

Change contaminated clothing. Wash hands after working with substance.

## Personal protective equipment

## Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

## Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

#### **Full contact**

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:Dermatril®

## Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:Dermatril®

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail

sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

# **Respiratory protection**

Not required; except in case of aerosol formation.

# Control of environmental exposure

Do not let product enter drains.

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

## 9.1 Information on basic physical and chemical properties

a) Appearance Form: viscous

Color: yellow

b) Odor odourless

c) Odor Threshold No data available

d) pH

e) Melting

point/freezing point Melting point: 98,9 °C

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f) Initial boiling point

and boiling range > 100 °C

g) Flash point 275 °C at ca.1.013 hPa - Pensky-Martens closed cup - DIN

51758

h) Evaporation rate
No data available
i) Flammability (solid,gas)
No data available

j) Upper/lower flammability or

explosive limits

k) Vapor pressure
l) Vapor density

Mo data available

< 1,4 hPa at 20 °C

No data available

1,095 g/mL at 25 °C

n) Water solubility 0,0002 g/l at 20 °C - OECD Test Guideline 105

o) Partition coefficient:

**n-octanol/water** No data available

p) Autoignition

temperature No data available

q) Decomposition

temperature

r) Viscosity
s) Explosive properties
t) Oxidizing properties

No data available
No data available
No data available

9.2 Other safety information

No data available

# **SECTION 10: STABILITY AND REACTIVITY**

## 10.1 Reactivity

Forms explosive mixtures with air on intense heating.

A range from approx. 15 Kelvin below the flash point is to be rated as critical.

### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

## 10.3 Possibility of hazardous reactions

No data available

## 10.4 Conditions to avoid

Strong heating.

## 10.5 Incompatible materials

Strong oxidizing agents

## 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available

In the event of fire: see section 5

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

## 11.1 Information on toxicological effects

## **Acute toxicity**

LD50 Oral - Rat - 38.900 mg/kg Remarks: (External MSDS)

LC50 Inhalation - Rat - male and female - 4 h - > 5,1 mg/l

(OECD Test Guideline 403)

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Remarks: Limit Test (highest concentration to be prepared)

Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation - 4 h (OECD Test Guideline 404)

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

Maximization Test - Guinea pig

Result: Does not cause skin sensitization.

(OECD Test Guideline 406) **Germ cell mutagenicity** 

No data available

Ames test

Escherichia coli/Salmonella typhimurium

Result: negative **Carcinogenicity** 

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

**Aspiration hazard** 

No data available

**Additional Information** 

RTECS: TR7400000

To the best of our knowledge, the chemical, physical, and toxicological properties have not

been thoroughly investigated.

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

Handle in accordance with good industrial hygiene and safety practice.

#### **SECTION 12: ECOLOGICAL INFORMATION**

12.1 Toxicity

Toxicity to fish static test LL50 - Danio rerio (zebra fish) - > 100 mg/l - 96 h

(OECD Test Guideline 203)

Toxicity to daphnia EC50 - Daphnia - > 10 mg/l - 48 h

and other aquatic Remarks: (above the solubility limit in the test medium)(Lit.)

invertebrates

Toxicity to algae microtox test EC50 - Bacteria - 146 - 774 mg/l - 5 min

Remarks: (Lit.)

12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 28 d

Result: > 60 % - Readily biodegradable.

(OECD Test Guideline 301F)

### 12.3 Bioaccumulative potential

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No data available

## 12.4 Mobility in soil

No data available

## 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### 12.6 Other adverse effects

Discharge into the environment must be avoided.

#### SECTION 13: DISPOSAL CONSIDERATION

#### 13.1 Waste treatment methods

#### Product

See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

#### **SECTION 14: TRANSPORT INFORMATION**

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ADR/RID: -IMDG: IATA:

## 14.2 UN proper shipping name

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

# 14.3 Transport hazard class(es)

ADR/RID: -IMDG:

14.4 Packaging group

ADR/RID: -IMDG:

14.5 Environmental hazards

IMDG Marine pollutant: no ADR/RID: no IATA: no

#### 14.6 Special precautions for user

## **Further information**

Not classified as dangerous in the meaning of transport regulations.

# **SECTION 15: OTHER REGULATORY INFORMATION**

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

## **15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out.

#### **SECTION 16: ADDITIONAL INFORMATION**

This information is provided for documentation purposes only.

The information contained in this Certificate of Analysis and Material Safety Data Sheet is obtained from current and reliable sources. The information contained herein is true and to the best of Indenta Chemicals (India) Pvt. Ltd. knowledge. Nothing herein should be interpreted as a recommendation to infringe existing patents or violate any Laws

IATA:

IATA:

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