

# Safety data for hazardous substances and preparations according to EC regulation 1907/2006/EEC (REACH)

Revision Date 07/01/2020

Print Date 07/01/2020

## 1. Substance/description of preparation and company

Trade name:

### Cleaning fluid for CD disc (Formula#13)

#### 1.1 description of preparation

Mixture of substances listed below Point 3..

#### producer/supplier

Taiwan Bor Ying Corp.  
street / P.O. Box No.61, Lane 369, Kimmen St. Pan Chiao District,  
nationality / zip / city ROC – 22071 New Taipei City  
telephone: 00886-2-2681-5456  
telefax: 00886-2-2682-6590

#### 1.2 responsible department: dept. Chemicals

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## 2. Harzard identification / Possible dangers

#### 2.1 description of dangers:

inflammable

#### 2.2 special information on danger for people and environment: -

#### 2.3 Classification of the substance or mixture

**Classification according to Regulation (EC)1727/2008 [CLP/GHS]**

Flam. Liq. 3, H226

Eye Irrit. 2, H319

STOT SE 3, H336

#### 2.4 Classification according to directive 67/548/EEC [DSD]

F; R10

Xi; R36

R67

See Section 11 for more detailed information on health effects and symptoms.

#### 2.5 Label elements:

##### Hazard pictograms :



**Signal word :** Danger

##### Hazard statements :

Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness.

##### Precautionary statements

##### Prevention :

Wear protective gloves. Wear eye or face protection. Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid breathing vapour. Wash hands thoroughly after handling.

##### Response :

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.

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

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.

##### Storage :

Store locked up. Store in a well-ventilated place. Keep cool.

##### Disposal :

Dispose of contents and container in accordance with all local, regional, national and international regulations.

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### 3. Composition / information on components of preparation

#### 3.1 general characterisation

solvent

#### 3.2 hazardous components

CAS No.	description	weight - %	symbol	R-sent.	CLP (GHS)
67-63-0	Propan-2-ol	20	F	10-36-67	H319, H336, H225

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### 4. First aid measures

#### 4.1 general information

remove affected person from dangerous area and lay down.

remove clothes touched by the product.

supply fresh air or oxygen

#### 4.2 inhaling

supply fresh air or oxygen Consult emergency doctor if complaints are permanent.

in case of unconsciousness use stable lateral-position for transport.

#### 4.3 skin contact

wash off with water and soap immediately and rinse thoroughly.

in case of permanent skin irritation consult doctor.

#### 4.4 eye contact

rinse open eyes under running water for various minutes. Consult doctor.

#### 4.5 swallowing

rinse out mouth and drink water afterwards, do not provoke vomiting and consult a doctor immediately.

#### 4.6 information for the doctor

danger of aspiration when swallowing or vomiting.

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### 5. Firefighting measures

#### 5.1 suitable extinguishing agents:

CO<sub>2</sub>, firefighting powder or spray jetted water. Fight larger fires with spray jetted water or alcohol resistant foam.

#### 5.2 extinguishing agents not suitable for safety reasons:

fully jetted water

#### 5.3 special dangers caused by the material or the preparation, its combustion product or developing gases:

development of explosive air-gas mixtures possible.

carbon monoxide can develop in a fire.

#### 5.4 special protection equipment for firefighting

wear breathing apparatus independent from the circulating air.

wear a complete protection suit.

depending on size of the fire, coordinate with fire in the surroundings.

#### 5.5 additional information

cool endangered containers with sprayed water.

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### 6. Measures for accidental evolution

see point 8 + 13.

#### 6.1 personal safety measures:

wear protective clothing. Keep unprotected people away.

provide for sufficient ventilation.

keep away ignition sources.

avoid contact with eyes and skin.

#### 6.2 environmental protection measures:

do not introduce larger quantities into sewerage system or into waters.

inform responsible authorities when sewerage system or waters are affected.

inform responsible authorities when soil is affected.

#### 6.3 cleaning methods:

take up with liquid-absorbing material ( sand, infusorial earth, acid binder, universal binder).

provide for sufficient ventilation.

dispose contaminated waste material according to point 13.

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## 7. Storage and handling

### 7.1 handling

#### 7.1.1 information for safe handling:

cool and dry storage in tightly closed Gebinden.  
provide for good ventilation/suction filter at the workplace.  
provide for good ventilation at ground level (vapor is heavier than air).

#### 7.1.2 information on protection of fire and explosion:

inflammable liquid. Vapor is heavier than air and can build explosive mixtures with air.  
Cool endangered containers with water.  
Keep away ignition sources and do not smoke.  
take measures against electrostatic charging.

### 7.2 storage

#### 7.2.1 requirements for storage rooms and containers:

store in a cool place.  
provide for solvent-resistant and tightly closing floor.

#### 7.2.2 information for materials stored together:

separate storage of inflammable and explosive materials and objects

#### 7.2.3 special storage conditions:

keep container tightly closed. Cool storage.  
protect from heat and direct sun exposure.  
heating leads to increased pressure and danger of bursting.  
store container in a room with good ventilation.

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## 8. Limitations of exposition and personal protection equipment

### 8.1 additional information for the arrangement of technical plants:

see point 7

### 8.2 components with limit values that are relevant to the workplace

CAS-No.	description of material	type	value	unit
67-63-0	2-Propanol	MAK	500	mg/m <sup>3</sup>
			200	ml/m <sup>3</sup>
		TRGS 900	980	mg/m <sup>3</sup>
			400	ml/m <sup>3</sup>

additional information: -

### 8.3 personal protection equipment

#### 8.3.1 breathing protection:

wear protective mask in case of regular exposure and inappropriate ventilation.  
gasfilter A 2

#### 8.3.2 hand protection:

wear solvent-resistant protective gloves in case of regular exposure.

#### 8.3.3 eye protection:

wear tight protective glasses in case of regular exposure.

#### 8.3.4 body protection: n.a.

#### 8.3.5 general protection and hygiene measures:

take the usual measures for the use of chemicals.  
take off dirty, soaked clothes.  
keep away from food, drinks and food stuff.  
do not eat, drink and smoke at work.  
wash your hands and use protective skin lotion before breaks and before end of work.  
avoid eye and skin contact.  
do not inhale gases / vapors / aerosols.

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## 9. Physical and chemical properties

### 9.1 appearance/smell:

state:	liquid
color:	transparent
odor:	alcoholic

### 9.2 data relevant for safety

pH value, undilluted:	≈7,0
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**change of state**

boiling point/boiling area (in °C):	82
melting point/melting area (in °C):	Not available
<b>inflammability</b>	
flash point (°C):	>=23°C and <=60°C
ignition temperatur:	Not available
<b>fire-fostering properties</b>	
danger of explosion:	product is not explosive, but the development of explosive air-vapor mixtures is possible.
explosion limits:	
lower explotsion limit:	Not available
upper explosion limit:	Not available
steam pressure ( mbar ):	Not available
density 20°C (g/ cm <sup>3</sup> ):	Not available
<b>solubility</b>	
water solubility:	mixable
viscosity, dyn. ( mPa x s ):	Not available
content of solvent (weight. %)	100 %

## 10. Stability and reactivity

- 10.1 **conditions to be avoided**  
warmth, flames
- 10.2 **material to be avoided**  
reaction with strong oxidizing agents and strong acids.
- 10.3 **hazardous decomposition products**  
no hazardous decomposition products known if used as agreed.

## 11. Information concerning toxicology

- 11.1 **toxicologic tests**
- acute toxicity**  
LD<sub>50</sub> / LC<sub>50</sub> - values relevant for classification:
- | component  | type     | value           | species |
|------------|----------|-----------------|---------|
| 2-Propanol | orally   | 4570 mg / kg    | rat     |
|            | dermally | 13400 mg / kg   | rab     |
|            | inhaling | 30 mg / L / 4 h | rat     |
- primary irritative effects:**
- on the skin: light effects  
in the eye: light effects
- sensitizing effects:** sensitizing effects possible
- subacute to chronic toxicity:** regular exposure can damage the liver
- additional toxicologic information:**
- Inhaling of concentrated vapors as well as oral taking can lead to narcotic conditions.
- 11.2 **experience with humans:** long or regular contact can extract fat from the skin.  
High concentration can provoke an contact eczema

## 12. Information on ecology

- 1. information about elimination (persistency and decompositability):**  
easy biological decomposition of the product.
- 2. behavior in environmental compartments:** N.D.A.
- 3. ecotoxic effects**
- aqueous toxicity
- |  |              |
|--|--------------|
| fish toxicity:                             | 100 mg/l/48h |
| LC 50 (leuciscus idus, DIN 38412, part 15) |              |
| daphnia toxicity:                          | 100 mg/l/24h |
| EC 50 (daphnia magna, DIN 38412, part 11)  |              |
- behavior in sewage plants:  
disturbances of the decomposition activity of activated sludge cannot be expected if small quantities are correctly introduced into adapted biological sewage plants.

### general information

hazard category for water: WGK 1

do not introduce larger undiluted quantities into ground water, sewerage system or into waters.

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### 13. Information on disposal

- 13.1 **product:** -
- 13.2 **recommendation:** comply with regulations of local authorities.  
do not introduce larger undiluted quantities into ground water, sewerage system or into waters.
- 13.3 **waste key number:** 553 15
- labeling: methanol and other liquid alcohols
- 13.4 **for uncleaned packaging:**  
safe handling: empty container completely. Do not make holes into uncleaned containers, do not cut or weld them. Remains can possibly cause an explosion.

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### 14. Transport regulations

- 14.1 **road- / rail transport (GGVS/ADR / GGVE/RID)**  
class: 3  
number / letter: 3b  
warning sign - danger - No.: 3  
material - / UN - No.: 1987  
description of good 1987, Alcohols, N.O.S., 2-propanol solution  
comment: for regulations concerning reduced quantities see RN 2301a.
- 14.2 **transport by sea ship( GGVSee / IMDG )**  
class: 3  
page: 1987  
packaging group: III  
EmS-No.: 3-06  
MFAG : 305  
technically correct name: ALCOHOLS, N.O.S., 2-propanol solution  
marine pollutant: no
- 14.3 **transport by plane ( ICAO - TI / IATA-DGR )**  
class: 3  
packaging group: III  
technically correct name: ALCOHOLS, N.O.S., 2-propanol solution

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### 15. Regulatory information

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

**EU Regulation (EC) No. 1907/2006 (REACH)**

**Annex XIV - List of substances subject to authorization**

**Substances of very high concern**

None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

**Other EU regulations**

Europe inventory : This material is listed or exempted.

Black List Chemicals : Not listed

Priority List Chemicals : Not listed

Integrated pollution prevention and control list (IPPC) – Air : Not listed

Integrated pollution prevention and control list (IPPC) – Water : Not listed

**International regulations**

Chemical Weapons Convention List Schedule I Chemicals : Not listed

Chemical Weapons Convention List Schedule II Chemicals : Not listed

Chemical Weapons Convention List Schedule III Chemicals : Not listed

- 15.2 **Chemical Safety Assessment** : Not available.

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### 16. additional information

the information refers to the product in its condition on delivery.

department issuing data sheet: Dep. Chemicals

**Procedure used to derive the classification according to Regulation (EC) No. 1272/2008  
[CLP/GHS]**

**Full text of abbreviated H statements:**

H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

**Procedure used to derive the classification according to directive 67/548/EEC [DSD]**

**Full text of abbreviated R phrases:**

R10- Flammable.

R36- Irritating to eyes.

R67- Vapours may cause drowsiness and dizziness.

**Code letter and hazard designation of product:**

F - Highly flammable

Xi – Irritant

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**Legend:**

n.a. = not applicable / n.a. = not available / n.t. = not tested / n.d.a. = no data available / n.c.d. = not called differently

VbF = regulation on inflammable liquids

MAK = maximum concentration at workplace in mg/m<sup>3</sup> = ppm

WGK1 = slightly endangering water

**Taiwan Bor Ying Corp.**

The data listed here is supposed to describe the product with respect to the necessary safety precautions. They do not aim at establishing certain properties, and they are based on the current level of our knowledge. No liability.