

## SAFETY DATA SHEET

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(The 8th edition)

### 1.IDENTIFICATION

PRODUCT NAME : MOKUKEN TERA PARTS & BRAKE CLEANER  
PRODUCT CODE : 15555  
  
COMPANY NAME : COSMO BEAUTY CO.,LTD.  
ADDRESS : 6-2-82, Shimaya, Konohana-ku, Osaka, Japan  
DEPT. IN CHARGE : Research and development  
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RECOMMENDED USES : Cleaner for metal parts of car  
REFERENCE NUMBER : 15555S08

### 2.HAZARDS IDENTIFICATION

GHS CLASSIFICATION  
PHYSICAL HAZARDS : AEROSOLS Category 1  
HEALTH HAZARDS : ACUTE TOXICITY (ORAL)  
: ACUTE TOXICITY (DERMAL)  
: ACUTE TOXICITY (INHALATION; VAPOUR)  
: SKIN CORROSION/IRRITATION Category 2  
: SERIOUS EYE DAMAGE/EYE IRRITATION Category 2A  
: RESPIRATORY SENSITIZATION  
: SKIN SENSITIZATION  
: GERM CELL MUTAGENICITY  
: CARCINOGENICITY Category 1  
: REPRODUCTIVE TOXICITY Category 1  
: SPECIFIC TARGET ORGAN TOXICITY Category 3  
SINGLE EXPOSURE  
: SPECIFIC TARGET ORGAN TOXICITY Category 1  
REPEATED EXPOSURE  
: ASPIRATION HAZARD Category 1  
ENVIRONMENTAL HAZARDS : HAZARDOUS TO THE AQUATIC ENVIRONMENT Category 2  
(ACUTE)  
: HAZARDOUS TO THE AQUATIC ENVIRONMENT  
(CHRONIC)  
: HAZARDOUS TO THE OZONE LAYER

※ Hazards which are not indicated in above summary are "Not applicable" or "Classification not possible".

### GHS LABEL ELEMENTS

PICTOGRAMS :   

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SIGNAL WORD : **Danger**

## HAZARD STATEMENTS

- : Extremely flammable aerosol
- Causes skin irritation
- Causes serious eye irritation
- May cause cancer
- May damage fertility or the unborn child
- May cause respiratory irritation
- May cause drowsiness or dizziness
- Cause damage to organs <Nervous system, Liver> through prolonged or repeated exposure
- May be fatal if swallowed and enters airways
- Toxic to aquatic life

## PRECAUTIONARY STATEMENTS

## [PREVENTION]

- : Keep away from heat/ sparks/ open flames/ hot surfaces – No smoking.
- Do not spray on an open flame or other ignition source.
- Pressurized container – Do not pierce or burn, even after use.
- Wear protective gloves.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Use personal protective equipment as required.
- Avoid release to the environment.

## [RESPONSE]

- : IF ON SKIN: Wash with soap and water.
- If skin irritation occurs: Get medical advice/ attention.
- Take off contaminated clothing and wash before reuse.
- IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
- If eye irritation persists: Get medical advice/ attention.
- IF EXPOSED OR CONCERNED: Get medical advice/ attention.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Call a POISON CENTER or doctor/ physician if you feel unwell.
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
- Do NOT induce vomiting.

## [STORAGE]

- : Store locked up.
- Store in a well ventilated place. Keep container tightly closed.
- Protect from sunlight. Do not expose to temperatures exceeding 40 °C/ 104 °F.

## [DISPOSAL]

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

**3.COMPOSITION/ INFORMATION ON INGREDIENTS**

SUBSTANCE/ MIXTURE : MIXTURE

## COMPOSITION AND CONTENT

CHEMICAL NAME/ COMMON NAME	CAS RN	CONTENT (%)
Isohexane	73513-42-5	50 - 60
Ethanol	64-17-5	5.0 - 15
LPG(Propellant)	68476-85-7	Balance

#### 4.FIRST-AID MEASURES

- INHALATION : Stop working immediately and keep a rest at a place which is well ventilated, and consult a doctor if you feel unwell.
- SKIN CONTACT : Immediately, wash with soap and water. If skin irritation occurs: Get medical advice/attention.
- EYE CONTACT : Immediately rinse continuously with water for 15 minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists: Get medical advice/attention.
- INGESTION : Rinse mouth. Immediately call a POISON CENTER or doctor/physician.
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#### 5.FIRE-FIGHTING MEASURES

##### SUITABLE EXTINGUISHING MEDIA

- : Dry chemical powder, foam, carbon dioxide, sand  
On small fires use dry chemical powder, carbon dioxide or dry sand.  
On large fires use fire foam for intercepting air.

- NOT SUITABLE : Can use water spray for the purpose of cooling, but do not use water jet for extinguishing fire.

##### SPECIFIC HAZARDS DURING FIRE

- : None.

##### SPECIFIC FIRE FIGHTING

- : Use water spray to keep exposed containers cool. Perform the fire fighting from windward.

##### PROTECTION FOR FIRE-FIGHTER

- : Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals.
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#### 6.ACCIDENTAL RELEASE MEASURES

- PERSONAL PRECAUTIONS : In the case of indoor, use with adequate ventilation until finished operation.  
In the event of a spill or accidental release, pull a rope and evacuate area.  
In the event of a spill or accidental release, wear protective equipment (glasses, gloves, a mask, safety clothing) to avoid eye contact, breathing vapor, skin contact.  
Operating from windward, evacuate from downwind area.  
Prepare extinguishing media for ready against a fire.  
In the case of a large spills, evacuate a person safely.

##### ENVIRONMENTAL PRECAUTIONS

- : Pay attention for product spillage to prevent influence to environment.  
When diluting spilled material with a large quantity of water, be careful not to flow out into the environment without polluted drainage being handled appropriately.  
Do not discharge into the drains, surface waters or ground water directly.

##### METHODS FOR CLEANING UP

- : Small spills: Absorb spills with sand, inert absorbent, waste cloth or sawdust. Then wipe up remainder in waste cloth.

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Large spills: Dike spills and dispose of in safe area.  
Clean up remaining materials from spill with suitable absorbant.

#### PREVENTION OF SECONDARY HAZARDS

: Keep away from sources of ignition and prepare extinguishing media.  
Use only non-sparking tools.

## 7.HANDLING AND STORAGE

### HANDLING

#### TECHNICAL MEASURES

: Use an adequate ventilation.  
Avoid breathing vapours.  
Handle outdoors from upwind position if possible.  
Avoid contact with eyes, skin or clothes.  
Wear rubber gloves and safety goggles.  
Wash hands thoroughly after handling.  
Keep away from heat/sparks/open flames/hot surfaces – No smoking.  
Take precautionary measures against static discharge.  
Caution: Flammable.

#### LOCAL AND GENERAL VENTILATION

: Handle only outdoors or in a well-ventilated area.

#### SAFE HANDLING ADVICE

: Use explosion-proof facilities. Take precautionary measures against static discharge.  
Avoid rough handling.

### STORAGE

#### SUITABLE STORAGE CONDITIONS

: Protect from sunlight. Store in a well ventilated place. Keep container tightly closed.  
Store locked up.  
Keep away from heat/sparks/open flames/hot surfaces.  
Avoid storing with acids.  
Store away from incompatible materials such as strong oxidizing agent.

#### SAFE PACKAGING MATERIALS

: Keep only in original container.

## 8.EXPOSURE CONTROLS/ PERSONAL PROTECTION

### LIMIT VALUES

ACGIH : TWA 500 ppm [Isohexane], 1000 ppm [LPG]  
STEL 1,000 ppm [Isohexane], 1,000 ppm [Ethanol]

ENGINEERING MEASURE : Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

### PERSONAL PROTECTIVE EQUIPMENT

#### RESPIRATORY PROTECTION

: Use chemical cartridge respirator for organic vapor as appropriate to situation.

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HAND PROTECTION : Use oil resistant gloves.  
 EYE PROTECTION : Use safety goggles.  
 SKIN AND BODY PROTECTION : Use protective antistatic protection clothes/conductive shoes.  
 HYGIENE MEASURES : No information available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

FORM : Clear liquid  
 COLOUR : Colourless  
 ODOUR : Characteristic odour  
 pH : Not applicable  
 MELTING POINT : -114.5 °C : Ullmanns(E) (6th, 2003)[Ethanol], -183 °C~-20 °C: IUCLID (2000)[LPG]  
 BOILING POINT : 78.32 °C : Ullmanns(E) (6th, 2003)[Ethanol]、-162~-0.5°C (1013hPa) : IUCLID (2000)[LPG]  
 FLASH POINT : -32 °C [Isohexane]、13 °C (closed cup) : Merck (13th, 2001)[Ethanol]、<-56 °C : IUCLID (2000)[LPG]  
 AUTOIGNITION TEMP. : 306 °C [Isohexane]、422.78 °C : (ACGIH (2001)) [Ethanol]、405 °C : NFPA (13th, 2006) [LPG]  
 FLAMMABILITY(SOLID, GAS) : Not applicable  
 EXPLOSION PROPERTIES : 1.2~7.0 vol% [Isohexane]  
 3.3~19 % (volume in air) : Lide (88th, 2008) [Ethanol]  
 VAPOUR PRESSURE : 59.3 mmHg(25°C) : HSDB (2003) [Ethanol]  
 VAPOUR DENSITY : 1.59 (Air=1) : HSDB (2006) [Ethanol]  
 EVAPORATION RATE : No data available  
 DENSITY(25°C) : 0.7893 g/cm<sup>3</sup> (20°C/4°C) : Ullmanns(E) (6th, 2003) [Ethanol]  
 SOLUBILITY : Insoluble in water.  
 n-OCTANOL/WATER PARTITION COEFFICIENT : log Pow = -0.31 (EXP) : Howard (1997) [Ethanol]、logP ≤ 2.8 : IUCLID (2000) [LPG]  
 DECOMPOSITION TEMP. : No data available  
 VISCOCITY(25°C) : No data available

## 10. STABILITY AND REACTIVITY

STABILITY : Stable under normal conditions.  
 HAZARDOUS REACTION : Avoid contact with the strong oxidizer.  
 CONDITIONS TO AVOID : No information available.  
 MATERIALS TO AVOID : Contact with halogen, strong acids and oxidants.  
 HAZARDOUS DECOMPOSITION PRODUCTS : No information available.

## 11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY (ORAL) : [Ethanol] It was set as the outside of Category by the statement of "rat oral LD50=6.2-17.8 g/kg bw.>5 g/kg bw" (DFGOT vol.7 (1996, p148) and Patty (5th, 2005, p385)).

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ACUTE TOXICITY (DERMAL)	: [Ethanol] Based on a LDLo value of 20,000 mg/kg bw for rabbits (SIDS (2009)), the substance was classified as "Not classified".
ACUTE TOXICITY (INHALATION; VAPOURS)	: [Ethanol] For five LC50 values reported for rats, one value (3837 ppmV (SIDS (2009)) corresponds to Category 4, and four values (63,000 ppmV (4h) (DFGOT vol. 12 (1999)), 20,661 ppmV (4h), 66,181 ppmV (4h) and 22,627 ppmV (4h) (SIDS (2009))) correspond to "Not classified", the substance was classified as "Not classified". Since the saturated vapour pressure concentration of the substance was 78,026 ppmV (147.1 mg/L) and the test concentrations was lower than 90% of saturated vapour pressure concentration (70,223 ppmV (132.4 mg/L)), the classification criteria for gas (ppmV) was adopted.
SKIN CORROSION/ IRRITATION	: n-Hexane as an analogue substance of iso-Hexane was classified into Category 2.
SERIOUS EYE DAMAGE / IRRITATION	: n-Hexane as an analogue substance of iso-Hexane was classified into Category 2. Ethanol was classified into Category 2B.
RESPIRATORY SENSITIZATION / SKIN SENSITIZATION	: No information available.
GERM CELL MUTAGENICITY	: No information available.
CARCINOGENICITY	: Ethanol was classified into the Category 1A. Category 1A > 0.1 % (= Category 1)
REPRODUCTIVE TOXICITY	: Ethanol was classified into the Category 1A. Category 1A > 0.3 % (= Category 1)
SPECIFIC TARGET ORGAN TOXICITY	
- SINGLE EXPOSURE	: n-Hexane as an analogue substance of iso-Hexane and Ethanol were classified into Category 3 (Respiratory tract irritation, Narcotic effects). Category 3 $\geq$ 20% (= Category 3)
SPECIFIC TARGET ORGAN TOXICITY	
- REPEATED EXPOSUR	: n-Hexane as an analogue substance of iso-Hexane was classified into Category 1 (nervous system). Ethanol was classified into Category 1 (liver), Category 2 (central nervous system). Category 1 $\geq$ 10 % (=Category 1(nervous system, liver)) Category 2 < 10 % (= Classification not possible)
ASPIRATION HAZARD	: n-Hexane as an analogue substance of iso-Hexane was classified into Category 1. Category 1 $\geq$ 10 % (= Category 1)
OTHER INFORMATION	: No information available.

## 12.ECOLOGICAL INFORMATION

### ECOTOXICITY AQUATIC TOXICITY

#### HAZARDOUS TO THE AQUATIC ENVIRONMENT (ACUTE)

: n-Hexane as an analogue substance of iso-Hexane was classified into Category 2.  
Category 2 > 25 % (= Category 2)

#### HAZARDOUS TO THE AQUATIC ENVIRONMENT (CHRONIC)

: No information available.

### PERSISTENCE/ DEGRADABILITY

: No information available.

BIOACCUMULATION : No information available.

MOBILITY IN SOIL : No information available.

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OTHER DATA : No information available.

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### 13.DISPOSAL CONSIDERATIONS

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

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### 14.TRANSPORT INFORMATION

#### INTERNATIONAL REGULATIONS

UN HAZARD CLASS : Class 2.1 Aerosols, flammable, n.o.s.  
UN NUMBER : UN1950  
NAME : AEROSOLS (maximum 1 litre)  
UN PACKING GROUP : Not applicable

SEA TRANSPORT(IMDG) : AEROSOLS (maximum 1 litre) : Class 2 [Gases] - Division 2.1 [Flammable gases]

AIR TRANSPORT(IATA) : AEROSOLS, flammable : Class 2 [Gases] - Division 2.1 [Flammable gases]

#### SAFETY ON TRANSPORTATION

Ensure containers without breakage or leakage prior to shipping. Ensure containers tightly fixed to prevent collapse of cargo.

Protect from sunlight. Avoid high temperature and humidity. Caution: Flammable.

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### 15.REGULATORY INFORMATION

Follow all regulations in your country or region.

Cosmobeauty is not able to check up the regulatory information in regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

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### 16.OTHER INFORMATION

#### REFERENCE

Raw materials manufacturer publication MSDS(s).

National Institute of Technology and Evaluation (Japan) [Chemical Risk Information Platform (CHRIP)]

Ministry of Health, Labour and Welfare (Japan) [Model MSDS for GHS]

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#### REFERENCE OF CONTENTS

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