

SAFETY DATA SHEET

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 (The 17th edition)

1.IDENTIFICATION

PRODUCT NAME : PARTS & BRAKE CLEANER S
 PRODUCT CODE : 10468

COMPANY NAME : COSMO BEAUTY CO.,LTD.
 ADDRESS : 6-2-82, Shimaya, Konohana-ku, Osaka, Japan
 DEPT. IN CHARGE : Research and development
 PERSON IN CHARGE : Honami Koba
 TELEPHONE NUMBER : +81-6-6460-3120
 FAX NUMBER : +81-6-6460-0052
 RECOMMENDED USES : Cleaner for metal parts of car
 REFERENCE NUMBER : 10468S17

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 SINGLE EXPOSURE	Category 3
	: SPECIFIC TARGET ORGAN TOXICITY REPEATED EXPOSURE	Category 1
	: ASPIRATION HAZARD	Category 1
ENVIRONMENTAL HAZARDS	: HAZARDOUS TO THE AQUATIC ENVIRONMENT (ACUTE)	Category 2
	: 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 :   

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/ eye protection/ face protection.
- Obtain special instructions before use.
- 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.
- Get Medical advice/ attention 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.
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3.COMPOSITION/ INFORMATION ON INGREDIENTS

SUBSTANCE/ MIXTURE : MIXTURE

COMPOSITION AND CONTENT

CHEMICAL NAME/ COMMON NAME	CAS RN	CONTENT (%)
Isohexane	73513-42-5	60 - 70
Ethanol	64-17-5	5.0 - 10
Cyclohexane	110-82-7	2.0 - 4.9
LPG(Propellant)	68476-85-7	20 - 30

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. Do NOT induce vomiting.

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.

6.ACCIDENTAL RELEASE MEASURES

- PERSONAL PRECAUTIONS** : In the case of indoor, use with adequate ventilation until finished operation.
 Wear rubber gloves, safety glasses and safety clothes always when disposing leakage.
 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.
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**

- : Handle in well-ventilated areas.
Avoid breathing vapours.
Wear protective gloves and safety glasses as appropriate to situation.
Avoid contact with eyes, skin or clothes.
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.
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], 100 ppm [Cyclohexane]
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.

HAND PROTECTION : Use safety gloves.

EYE PROTECTION : Use safety glasses.

SKIN AND BODY PROTECTION

: Use protective clothing as appropriate to situation.

HYGIENE MEASURES : No information available

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM : Clear liquid

COLOUR : Colourless

ODOUR : Slightly characteristic odour

pH : Not applicable

MELTING POINT : -114.5 °C: Ullmanns(E) (6th, 2003)[Ethanol], 6.5°C: ICSC (1994)[Cyclohexane], -183 ~ -20 °C: IUCLID (2000)[LPG]

BOILING POINT : 78.32 °C: Ullmanns(E) (6th, 2003)[Ethanol], 81 °C (b.p.): ICSC (1994)[Cyclohexane], -162 ~ -0.5 °C (1013hPa): IUCLID (2000)[LPG]

FLASH POINT : -32 °C[Isohexane], 13 °C(closed cup): Merck (13th, 2001)[Ethanol], -18 °C (Closed cup): ICSC (1994)[Cyclohexane], <-56°C: IUCLID (2000)[LPG]

AUTOIGNITION TEMP. : 306 °C[Isohexane], 422.78 °C: (ACGIH (2001))[Ethanol], 260 °C: ICSC (1994) [Cyclohexane], 405 °C: NFPA (13th, 2006) [LPG]

FLAMMABILITY(SOLID, GAS)

: No data available

EXPLOSION PROPERTIES

: 1.2 ~ 7.0 vol%[Isohexane], 3.3 ~ 19 % (volume in air): Lide (88th, 2008)[Ethanol], 1.3 ~ 8.4 %: ICSC (1994)[Cyclohexane]

VAPOUR PRESSURE : 59.3 mmHg(25°C): HSDB (2003)[Ethanol], 12.7 kPa(20°C): ICSC (1994)[Cyclohexane]

VAPOUR DENSITY : 1.59 (Air=1): HSDB (2006)[Ethanol], 2.9 (Air=1): ICSC (1994)[Cyclohexane]

EVAPORATION RATE : No data available

DENSITY(25°C) : 0.7893 g/cm³ (20°C/4°C): Ullmanns(E) (6th, 2003)[Ethanol], 0.8: ICSC (1994)[Cyclohexane]

SOLUBILITY : Insoluble in water.

n-OCTANOL/WATER PARTITION COEFFICIENT

: log Pow = -0.31 (EXP): Howard (1997)[Ethanol], log Pow = 3.44(Estimated value): Howard (1997)[Cyclohexane], 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] LD50 values of 6,200 mg/kg, 11,500 mg/kg, 17,800 mg/kg, 13,700 mg/kg (PATTY(6th, 2012)), 15,010 mg/kg, 7,000-11,000 mg/kg(SIDS(2005)) for rats correspond to "Not classified".

[Cyclohexane] Based on LD50= 7729.9 mg/kg calculated from five data (EU-RAR (2004)) of rats, it was set as the outside of Category.

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".

[Cyclohexane] Based on the description that death was not observed at 2000mg/kg of dose in a rabbit (EU-RAR (2004) , it was set as the outside of Category.

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.

[Cyclohexane] The saturated vapor pressure concentration of this product is 125743ppm, and it is thought that all inhalation tests were done with vapor. Based on LC50 of 4-hour exposure on rats >9500ppm (EU-RAR (2004)), it was classified as out of Category.

SKIN CORROSION/ IRRITATION

: n-Hexane as an analogue substance of iso-Hexane and Cyclohexane were classified into Category 2.

Category 2 \geq 10 % (= Category 2)

SERIOUS EYE DAMAGE / IRRITATION : n-Hexane as an analogue substance of iso-Hexane and Cyclohexane were classified into Category 2.

Ethanol was classified into Category 2B.

Category 2 \geq 10 % (= Category 2A)

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).

Cyclohexane was classified into Category 2 (cardiovascular system), Category 3 (Respiratory tract irritation, Narcotic effects).

Category 2 < 10% (= Classification not possible)

Category 3 \geq 20% (= Category 3)

SPECIFIC TARGET ORGAN TOXICITY

- REPEATED EXPOSURE : 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)**

- : Cyclohexane was classified into Category 1.
n-Hexane as an analogue substance of iso-Hexane was classified into Category 2.
(10 × Category 1) + Category 2 > 25 % (= Category 2)

HAZARDOUS TO THE AQUATIC ENVIRONMENT (CHRONIC)

- : Cyclohexane was classified into Category 3.
(100×Category 1) + (10 × Category 2) + Category 3 \leq 25 % (= Classification not possible)

PERSISTENCE/ DEGRADABILITY

: No information available.

BIOACCUMULATION

: No information available.

MOBILITY IN SOIL

: No information available.

OTHER DATA

: No information available.

13.DISPOSAL CONSIDERATIONS

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

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.

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.

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

: COSMO BEAUTY CO.,LTD. R&D DEPT.

TELEPHONE NUMBER : +81-6-6460-3120

FACSIMILE NUMBER : +81-6-6460-0052
