MATERIAL SAFETY DATA SHEET

MSDS

1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	Parts & Brake cleaner 840
PRODUCT CODE	00839
MANUFACTURER	
COMPANY NAME	TAIHOKOHZAI CO.,LTD
ADDRESS	4-2-8 SHIBAURA, MINATO-KU TOKYO 108-0023 JAPAN
TELEPHONE No.	03-6414-5608
PRINCIPAL USE	Machine parts and car brake washing spray
BOARDING NUMBER	839-2

2 HAZARDS INDENTIFICATION

HAZARDS CATEGORY

FLAMMABLE AEROSOLS	Category 1	
FLAMMABLE LIQUIDS	Category 2	
ACUTE TOXICITY (Oral)	Category 5	
SERIOUS EYE DAMAGE /EYE IRRITATION	Category 2A	
REPRODUCTIVE TOXICITY	Category 1	(1A or 1B)
SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY - SINGLE EXPOSURE	Category 3	
SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY - REPEATED EXPOSURE	Category 2	
ASPIRATION HAZARD	Category 1	

※The one without the description cannot be classified.

ALLOCATION OF LABEL

PICTOGRAM

Flame
Exclamation mark
Health Hazard

SIGNAL WORD

Danger

HAZARD STATEMENT

Extremely flammable aerosol
Highly flammable liquid and vapour
May be harmful if swallowed
Causes severe eye irritation
May damage fertility or the unborn child
May cause respiratory irritation; or May cause drowsiness and dizziness
Causes damage to organs through prolonged or repeated exposure
May be fatal if swallowed and enters airways

3 COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE/MIXTURE:

- Mixture

COMPONENTS	wt%	CAS No.	CHEMICAL FORMULA

Iso-Hexane	６０－６５	107-83-5 96-14-0	C6H14
Propane	１５－２０	74-98-6	C3H8
Ethanol	１０－１５	64-17-5	C2H5OH
n-Butane	５－１０	106-97-8	C4H10
Iso-Butane	３＞	75-28-5	C4H10
Carbon dioxide	３＞	124-38-9	CO2

4 FIRST AID MEASURES

INHALATION:

Remove to fresh air, and take a rest in the easy style of breathes.

If breathe with fee like vomiting, let a head sideways.
Do not give any drink to the victim who is unconscious.

SKIN:

Wash out with soap and plenty of water. If irritation and water blister develop, get medical attention as the need arises.

EYE:

Carefully wash out eyes for few minutes. Then remove contact lenses, if it can be taken off easily.
Afterwards keep rinsing eyes.

INGESTION

Wash out mouth. Seek immediate medical attention
Do not vomit out. Wash out mouth with plenty of water. Seek immediate medical attention.

5 FIRE FIGHTING MEASURES

EXTINCTION AGENT
At the beginning of fire, use CO2, dry chemical, or foam.
On large fires use use fire foam agent to shut off air.
Use CO2, dry chemical, or foam.
PROHIBITED EXTINCTION
Never use water,which arise fire expansion.
FIRE FIGHTING MEASURES
The extinction work to be done from the windward.

6 ACCIDENTAL RELEASE MEASURES

Attention to Human body.Protective instrument and Emergency treatment
In case of indoor, fully ventilate until completion of treatment.
It works from the windward, and the person in leeward to be taken shelter.
Tools and materials for extinguishing fires are prepared just in case of ignition.
Let the person take shelter safely in case of a large amount.
Wear the rubber glove, protective glasses, and the protection clothes, etc. when you treat the leakage.
LAND SPILL / WATER SPILL
Take care not to run off to river and sewers and prevent from occurring environment pollution.
A small amount of residual liquid to be absorbed by sands ,sawdust and others.
In case of small amount of liquid, stick fast by absorbent and remove remaining liquid with waste cloth.
If it is not harmful, vaporize or difuuse it with take care of fire ,ventilation and others. or you may accelerate vaporation with sprinkle water.

Prevention method of secondary disaster
What it become a ignition source is to be promptly excluded and to be prepared extinction fire extinguish agent.
Unsparkle safety instruments to be used.

7 HANDLING AND STORAGE

HANDLING:

Technical measures
Use only in well ventilated areas.
Use only in the adequate ventilation
The equipments to wash eyes and body in an emergency are to be set up near by handling place.
Do not generate steam easily and take care not to leak , overflow and disperse.
Do not breathe in dispersed steam (dust).
Outdoor work to be done at the windward as much as possible.

Do not put it on eyes, skins, and clothes.
Do not eat, drink or smoke during work.
Wear protective glove,protective glasses and protective mask.
After handling, wash well hands and face and rinse your mouth.
Do not use sparkle instruments around workshop.
Keep away ignition source like heat,spark,naked flame from ignition source -> No smoking.
Avoid fire. Don't overheat, rub and make a impact.
To cope with electrostatic, manage perfectly to earth equipments and instruments.
Do preventive measures to electrostatic discharge.
Anti-explosive electric equipment, ventilator,lighting equipment is to be used.
The tool is to be used spark-proof type.
Prohibit fire strictly
Handle it in the limited exhaust area or in the place of central ventilation systems equipped.
Handle with care not to cause easily an aerosol and dust

STORAGE:
Appropriate storage conditions
Let fresh air into the room fully, keep not staying steam.
Shut off from direct sunshine.
Keep it in a well ventilated area.
Keep away from the ignition sources such as heat,spark,naked flame and high temperature materials.
Fire prohibied strictly
It doesn't keep it near fire and strong oxidized material.
Keep it at the place of 40℃ max..
It is feared to burst under the high temperature..

---

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

MEASURES FOR EQUIPMENTS
Practice at the place equipped whole ventilation system

EXPOSURE LIMIT VALUES:

COMPONENTS	ACGIH
Iso-Hexane	Not established
Propane	1800mg／m3
Ethanol	TWA 1000 ppm、 1880 mg/m3 A4
n-Butane	TLV-TWA 800ppm
Iso-Butane	1800mg／m3
Carbon dioxide	TWA:５０００ｐｐｍ

PERSONAL PROTECTION
Respiratory organs protection
In case of insufficient ventilation, wear suitable respiratory equipment.
Protection tool for hand
Anti-solvent protective gloves
Protective eyewear
Protective glasses

---

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE
CLEAR LIQUID
ODOUR
Phosphoric acid Odour
pH
該当しない
MELTING POINT / MELTING RANGE
NO DATA
BOILING POINT / BOILING RENGE
６２．０℃(イソヘキサン)
FLASH POINT
NONE
AUTO IGNITION TEMPERATURE
NONE

EXPLOSION LIMITS
NO DATA
VAPOR PRESSURE
NO DATA
VAPOR DENSITY
NO DATA
SPECIFIC GRAVITY
0.68
SOLUBILLITY IN WATER
Insoluble
PARTITION COEFFICIENT (n-OCTANOL/WATER)
NO DATA

10 STABILITY AND REACTIVITY

STABILITY
It is stable under normal treatment.
Static electricity might be casued by continuous jet for a long time.
HAZARDOUS REACTIONS
Cause fire or explosion react with strong oxidized substances.
DANGEROUS SUBSTNACES
Oxidized substances.

11 Toxicological information

COMPONENTS	ACUTE TOXICITY (Oral)	ACUTE TOXICITY (Dermal)	ACUTE TOXICITY (Gases)	ACUTE TOXICITY (Vapours)	ACUTE TOXICITY (Dusts and Mists)	SKIN CORROSION/IRRITATION	SERIOUS EYE DAMAGE /EYE IRRITATION
Iso-Hexane	Category5	No Data	No Data	No Data	No Data	No Data	No Data
Propane	No Data	No Data	No Data	No Data	No Data	No Data	No Data
Ethanol	No Data	No Data	No Data	No Data	No Data	No Data	Category2A
n-Butane	No Data	No Data	No Data	No Data	No Data	No Data	No Data
Iso-Butane	No Data	No Data	No Data	No Data	No Data	No Data	No Data
Carbon dioxide	Category5	No Data	No Data	No Data	No Data	No Data	No Data

COMPONENTS	SKIN SENSITIZATION	GERM CELL MUTAGENICITY	CARCINOGENICITY	REPRODUCTIVE TOXICITY	SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY - SINGLE EXPOSURE	SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY - REPEATED EXPOSURE	Aspiration Hazard
Iso-Hexane	No Data	No Data	No Data	No Data	Category3	No Data	Category1
Propane	No Data	No Data	No Data	No Data	Category3	No Data	No Data
Ethanol	No Data	No Data	No Data	Category1A	Category3	Category1	No Data
n-Butane	No Data	No Data	No Data	No Data	Category3	No Data	No Data
Iso-Butane	No Data	No Data	No Data	No Data	Category3	No Data	No Data
Carbon dioxide	No Data	No Data	No Data	Category1B	No Data	No Data	No Data

12 Ecological information

COMPONENTS	HAZARDOUS TO THE AQUATIC ENVIRONMENT (ACUTE)	HAZARDOUS TO THE AQUATIC ENVIRONMENT (CHRONIC)
Iso-Hexane	No Data	No Data
Propane	No Data	No Data
Ethanol	No Data	No Data
n-Butane	No Data	No Data
Iso-Butane	No Data	No Data
Carbon dioxide	No Data	No Data

13 DISPOSAL CONSIDERATIONS

Consign the work to the specialized waste management trader who got a permission from a prefectural governor in case dispose of contents or container.

14 TRANSPORT INFORMATION

UN Class

Aerosols, flammable : Class2.1

UN No.

AEROSOLS : 1950

- ·Specific measures for safety and condition of transportation
- ·It is confirmed that there is neither damage nor a leakage of the container.
- ·The load crumble prevention is surely done.
- ·Display and Wrap and Transport it according to a pertinent law.
- ·Avoid direct sunlight
- ·Water leak strict prohibition.
- ·Do not do luggage sidewise.
- ·Do not put it directly on a hot iron plate and ground, etc. when you transport it at the summer time.
- ·Do not put it directly on the iron plate etc. that become 40℃ or more.
- ·Do not store and transport with oxidizers etc.

15 REGULATORY INFORMATION

Follow all regulations in your country.

16 OTHER INFORMATION

REFERENCES

MSDS of each Material's

JIS Z 7250

SANGYO CHUDOKU-BINRAN (Written in Japanese) (SIKAYAKUSYUPPAN CO.,LTD)

13901 NO KAGAKU SYOUHIN (Written in Japanese)

KIKENBUTSU SEMPAKU YUSO OYOBI CHOZOU KISOKU NARABINI KANNKEI KOKUJI (Written in Japanese)

GHS data-base (NITE)

Japan Industrial Safety & Health Association Home Page (http://www.jaish.gr.jp/)

All materials may present unknown hazards and should be used in caution.
Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.