

114-2	Super Cutting Spray	First issue	2006/10/1
Ver 2	TAIHOKOHZAI CO.,LTD	Revised	2009/4/1

3 COMPOSITION/ INFORMATION ON INGREDIENTS

SUBSTANCE/MIXTURE:

- Mixture

COMPONENTS	wt%	CAS No.	CHEMICAL FORMULA
Lubricant base oil	50 - 60		
Addition Agent	15 - 25		
n-Butane	15 - 20	106-97-8	C4H10
Propane	5 - 10	74-98-6	C3H8
Isobutane	2 - 7	75-28-5	C4H10

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

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.

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.

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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 spark 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 prohibited 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
Lubricant base oil	300ppm
Addition Agent	No DATA
n-Butane	TLV-TWA 800ppm
Propane	1800mg / m3
Isobutane	1800mg / m3

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
 YELLOW CLEAR LIQUID

ODOUR
 OIL Odour

pH
 NONE

MELTING POINT / MELTING RANGE
 NO DATA

BOILING POINT / BOILING RENGE
 NO DATA

FLASH POINT
 170

AUTO IGNITION TEMPERATURE
 NO DATA

EXPLOSION LIMITS
 NO DATA

VAPOR PRESSURE
 NO DATA

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VAPOR DENSITY
NO DATA
SPECIFIC GRAVITY
0.94 - 0.97
SOLUBILITY IN WATER
Insoluble
PARTITION COEFFICIENT (n-OCTANOL/WATER)
NO DATA

10 STABILITY AND REACTIVITY

STABILITY

It is stable under normal treatment.

HAZARDOUS REACTIONS

Cause fire or explosion react with strong oxidized substances.

DANGEROUS SUBSTANCES

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
Lubricant base oil	Category5	No Data	No Data	No Data	Category4	Category3	Category2B
Addition Agent	No Data	No Data	No Data	No Data	No Data	No Data	No Data
n-Butane	No Data	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
Isobutane	No Data	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
Lubricant base oil	No Data	Category2	No Data	No Data	Category2	Category1	Category1
Addition Agent	No Data	No Data	No Data	No Data	No Data	No Data	No Data
n-Butane	No Data	No Data	No Data	No Data	Category3	No Data	No Data
Propane	No Data	No Data	No Data	No Data	Category3	No Data	No Data
Isobutane	No Data	No Data	No Data	No Data	Category3	No Data	No Data

12 Ecological information

COMPONENTS	HAZARDOUS TO THE AQUATIC ENVIRONMENT (ACUTE)	HAZARDOUS TO THE AQUATIC ENVIRONMENT (CHRONIC)
Lubricant base oil	No Data	No Data
Addition Agent	No Data	No Data

114-2 Ver 2	Super Cutting Spray TAIHOKOHZAI CO.,LTD	First issue Revised	2006/10/1 2009/4/1
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n-Butane	No Data	No Data
Propane	No Data	No Data
Isobutane	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 OYABI 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.