



SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

Name of product: **VALKARN CFC-FREE**

Manufacture Information: MARUNI INDUSTRY CO., LTD.
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Emergency advice: Phone +81-6-6716-4171

Recommended use(s): Adhesive

2. Hazards Identification

GHS Classification

Flammable Liquid	Category 2
Acute toxicity(Oral)	Category 5
Skin corrosion/irritation	Category 2
Eye corrosion/irritation	Category 2B
Carcinogenicity	Category 2
Specific target organ toxicity	Category 1(lungs, kidneys)
- Single exposure	Category 3(drowsiness and dizziness, respiratory irritation)
Specific target organ toxicity	Category 1(nervous system)
- Repeated exposure	Category 2(vascular system,kidneys)
Acute toxicity to the aquatic environment	Category 2
Chronic toxicity to the aquatic environment	Category 2

Label Elements

Pictogram and Symbol :



Signal word : **Danger**

Hazard statement :

H225 Highly flammable liquid and vapour
H303 May be harmful if swallowed



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H315	Causes skin irritation
H320	Causes eye irritation
H351	Suspected of causing cancer
H370	Causes damage to organs
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

Precautionary statements :

Prevention

P210	Keep away from heat/sparks/open flames / hot surface . No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use rated explosion-proof electrical equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P280	Wear protective gloves / protective clothing/eye protection/face protection.
P264	Wash exposed skin thoroughly after handling.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P260	Do not breathe dust/fumes/gas/mist/vapours/spray.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.

Response

P303+P361+P353	IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing.
P370+P378	In case of fire: Use dry chemical powder, appropriate foam, carbon dioxide for extinction.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor / physician.



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P337+P313	IF eye irritation persists: Get medical advice/attention.
P308+P313	If exposed: Call a POISON CENTER or doctor/physician.
P308+P311	If exposed or concerned: Call a POISON CENTER/ doctor.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor / physician.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P391	Collect spillage.

Storage

P403+P235	Store in a well ventilated place. Keep cool.
P403+P233	Store in a well ventilated place. Keep container tightly closed.
P405	Store locked up.

Disposal

P501	Dispose of contents/ container in accordance with local/ regional/ national/ international regulations.
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3. Composition/ information on ingredients

Chemical Identity Solution of natural rubber in solvent

Synonyms - - -

Chemical Formula Mixture

CAS No.	Component Name	Percent
68513-03-1	Solvent naphtha	30 - 50
108-87-2	Methyl cyclo hexane	30 - 50
9006-04-6	Natural rubber	5 - 10
63393-89-5	Coumarone-indeneresins	0 - 1

4. First aid and Measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water, Consult a physician.



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In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never make him/her vomit by force. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Dry powder, Carbon dioxide, Alcohol-resistant foam. Use water spray or fog to control fire fumes.

Unsuitable extinguishing media

Do not use a solid water stream.

5.2 Special hazards arising from the substance or mixture

Specific hazards

Exposure to fire may cause containers to rupture / explode.

Hazardous combustion products

If involved in a fire, the following toxic and / or corrosive fumes may be produced by thermal decomposition: Carbon dioxide and Carbon monoxide

5.3 Advice for fire-fighters

Specific methods

If possible, stop flow of product. If leaking, do not extinguish a flame unless absolutely necessary. Spontaneous / explosive re-ignition may occur. Extinguish any other fire. Move container away or cool with water from a protected position. Prevent water used in emergency cases from entering sewers and drainage systems.



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5.4 Further information

No data available

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove ignition sources and ventilate the area. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid raising dust and avoid contact with skin and eyes.

6.2 Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

6.3 Methods and materials for containment and cleaning up

Do not touch spilled material without suitable protection (See section 8). After material is completely picked up, wash the spill with soap and water, and ventilate the area. Put all wastes in a plastic bag for disposal and seal it tightly. Remove, clean, or dispose of contaminated clothing.

6.4 Reference to other sections

For disposal see section 13.

7. Handling and storage

7.1 Precautions for safe handling

Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Handle material with suitable protection.

7.2 Conditions for safe storage, including any incompatibilities

Store away from sunlight in well-ventilated dry place at room temperature (preferably cool place). Keep container tightly closed.

8. Exposure controls/ Personal protection

8.1 Engineering measures

Use exhaust ventilation to keep airborne concentrations below exposure limits.
Use adequate ventilation.

8.2 Ventilation

Local exhaust; recommended, mechanical(General) ; recommended

8.3 Control parameters

Component Name	ACGIH TLV-TWA	OSHA PEL-TWA
Solvent naphtha	300 ppm	500 ppm



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Methyl cyclo hexane	400 ppm	-
Natural rubber	-	-
Coumarone-indeneresins	10 ppm(indende)	-

8.4 Personal protection

Respiratory protection	Safety masks
Hand protection	Chemical resistance gloves
Eye protection	Safety glasses(goggles)
Skin protection	Protective clothing

9. Physical and Chemical properties

element 1 : Solvent naphtha
 ## element 2 : Methyl cyclo hexane

Information on basic physical and chemical properties

a) Appearance	Light yellow, liquid	
b) Odour	Petroleum-like	
c) Odour Threshold	No data available	
d) pH	No data available	
e) Melting point/freezing point	No data available(element 1)	-127°C(element 2)
f) Initial boiling point and boiling range	85-125°C(element 1)	100°C(element 2)
g) Flash point	-15°C(element 1)	-4°C(element 2)
h) Evaporation rate (Butyl acetate)	No data available	
i) Upper explosive limits	7 vol%(element 1)	6.7 vol%(element 2)
Lower explosive limits	1 vol%(element 1)	1.2 vol%(element 2)
j) Vapour pressure	No data available(element 1)	6.1 kPa 25°C(element 2)
k) Vapour density	No data available(element 1)	3.4 (element 2)
l) Relative density	0.77 g/ml	
m) Water solubility	Negligible	
n) Partition coefficient : n-octanol/water	No data available(element 1)	log Pow=3.61 (element 2)
o) Auto-ignition temperature	250°C(element 1)	250°C (element 2)
p) Decomposition temperature	No data available	
q) Viscosity	400 - 800 mPa·s (25°C)	

10. Stability and reactivity

10.1 Reactivity

No reactivity hazard other than the effects described in sub-sections below.



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10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Can form potentially explosive atmosphere in air. May react violently with oxidants.

10.4 Conditions to avoid

Keep away from heat/sparks/open flames/hot surfaces. -No smoking.

10.5 Incompatible materials

Air, Oxidiser

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. If involved in a fire the following toxic and/or corrosive fumes may be produced by thermal decomposition;

Carbon dioxide and Carbon mono-oxide

11. Toxicological information

element 1 : Solvent naphtha
 ## element 2 : Methyl cyclo hexane
 ### element 3 : Coumarone-indene resins

Information on toxicological effects

	(element 1)	(element 2)	(element 3)
Acute toxicity			
LD50 Oral - Rabbit -	No data available	4,000 - 4,500mg/kg	No data available
LD50 Oral - Rat -	>14,063mg/kg	3,200mg/kg	No data available
Skin corrosion/irritation			
Skin - Rabbit Result :	Group 2	mild	Group 3
Eye damage/eye irritation			
Eyes - Rabbit Result :	Group 2B	mild	Group 2
Respiratory or skin sensitization	No data available	No data available	Group 1
Germ cell mutagenicity	No data available	No data available	No data available
Carcinogenicity	Group 2	No data available	No data available
Reproductive toxicity	Group 1	No data available	No data available



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Specific target organ toxicity - single exposure	Group1 Group 3	Group 3	Group 2
Specific target organ toxicity - repeated exposure	Group1 Group 2	No data available	Group 1

12. Ecological information

	(element 1)	(element 2)
12.1 Toxicity		
LC50	82mg/L/96h(Cypronodon variegat	3.3mg/L/96h(Artemia salina)
BOD	No data available	0%



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12.2 Persistence and degradability

No data available

No data available

12.3 Bioaccumulative potential

No data available

No data available

12.4 Mobility in soil

No data available

No data available

12.5 Results of PBT and vPvB assessment

Non-classified PBT substance, Non-classified vPvB substance

12.6 Other adverse effects

Toxic to aquatic life with long lasting effects.

13. Disposal considerations

Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. Transport information

14.1 UN number

ADR/RID : 1133

IMDG : 1133

IATA : 1133

14.2 UN proper shipping name

ADR/RID : ADHESIVES, containing flammable liquid

IMDG : ADHESIVES, containing flammable liquid

IATA : ADHESIVES, containing flammable liquid

14.3 Transport hazard class(es)

ADR/RID : 3

IMDG : 3

IATA : 3

14.4 Packaging group

ADR/RID : II

IMDG : II

IATA : II



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14.5 Environmental hazards

ADR/RID : Environmentally Hazardous Substance
IMDG : Environmentally Hazardous Substance
IATA : Environmentally Hazardous Substance

14.6 Special precautions for user

Keep away from sources of heat and ignition.

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: Authorisations and/or restrictions on use

Notification Status

Europe REACH	:On inventory, or in compliance with the inventory
United States of America TSCA	:On inventory, or in compliance with the inventory
Japan ENCS	:On inventory, or in compliance with the inventory

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

16. Other information

NOTICE: MARUNI INDUSTRY CO., LTD. believes that information contained on this safety data sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily all-inclusive nor fully adequate in every circumstance. Also, the suggestions should not be confused with nor followed in violation of applicable laws, regulations, rules or insurance requirements.

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Maruni Industry Co., Ltd

Date: May 8, 2025

Technical Division