

MATERIAL SAFETY DATA SHEET

[AC PAL]

PRINTED : 21 May 2010

1. Identification of substance:

Product details:

Trade name: AC PAL

Manufacturer/Supplier:

NIHON KOHSAN CO., LTD

1-3-2 SUEHIRO ICHIKAWA-CITY

272-0121 CHIBA-KEN JAPAN

Tel: 81-47-395-8211 Fax: 81-47-395-0931

Informing department: Product safety department.

Emergency information: Product safety department.

2. Composition/Data on components:

Description:

Mixture consisting of the following components

CAS NO.	Designation	%	Index	R-phrases
	Anticorrosion agent	3		
	Synthetic Lubricants	48		
68476-85-7	butane	20		
74-98-6	propane	29		

3. Hazards identification

Hazard designation:

High pressure gas, flammable, toxic or other harmful additives.

Highly flammable.

Possible explosion when steam is accumulated.

High pressure gas (LPG) is consisted.

Possible aerosol can burst near heater, window with direct sunlight or in high temperature place as car.

No use for human body.

4. First aid measures

After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm.

Consult doctor if symptoms persist.

After skin contact:

Wipe the substance off quickly.

Wash with water and soap instantly. Do not wash with solvent or thinner.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for more than 15 minutes under running water. If symptoms persist, consult doctor.

After swallowing:

Rinse out mouth and then take immediate medical care. Call a doctor immediately.

Do not induce vomiting.

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5. Fire fighting measures:

Suitable extinguishing agents:

Extinguishing powder or bubble jet, CO2 should be used.

Supplying water is to prevent additional fire extension or to cool the container.

Protective equipment:

Put on protective cloth, respiratory mask, circulatory mask for respiration, or rubber boots.

6. Accidental release measures

Person-related safety precaution:

Put on protective equipment as gloves, mask, and glasses.

Prepare appropriate extinguisher in case of ignition.

Measures for environmental protection:

Store in safety place after collecting waste in plastic container to prevent possible spark.

Measures for cleaning/collecting:

Absorb with dried sand or other unflammable material if the collection is difficult.

Ensure not to damage environment by releasing wastes to river

7. Handling and storage

Information for safe handling:

Ensure good ventilation at the workplace.

Close containers tightly in each use.

Avoid using fire, spark or high temperature materials.

Avoid contact with skin and eyes.

Information about protection against explosions and fires:

Keep ignition sources away. Do not smoke.

Protect against electrostatic charges.

Storage:

Requirements to be met by storerooms and containers:

Refrain from direct sunlight. Store in good ventilation. Keep away from ignition.

Store in cool, dry conditions.

8. Exposure controls and personal protection

CAS NO.	Designation of material	Type	Value	Unit
	Anticorrosion agent	-		
	Synthetic Lubricants	ACGIH	5	mg/m3
68476-85-7	butane	ACGIH	100	PPM
74-98-6	propane	ACGIH	400	PPM

Personal protective equipment:

General protective and hygienic measures:

Use exposure controls. Equip ventilation system to avoid accumulation of steam.

Keep away from foodstuffs, beverages and food.

Avoid contact with the eyes and skin.

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Breathing equipment:

Use breathing filter for organic gas in a closed room.

Protection of hands: Use protective gloves.

Eye protection: Tightly sealed safety glasses.

9. Physical and chemical properties

Form: Liquid

Color: Yellow Transparency

Smell: Characteristic

Melting point/Melting range: Not determined

Boiling point/Boiling range: No data

Flash point: -73.8°C (gas) 168°C (solvent)

Ignition temperature: 405°C (gas) 360°C (solvent)

Self-inflammability: Product is not self igniting

Danger of explosion:

Product contains LP gas. Possible aerosol can burst near heater, window with direct sunlight or in high temperature place as car.

Critical values for explosion:

Lower: vol %

Upper: vol %

Density: 0.87 g/cm³ (15°C)

Solubility in/ Miscibility with

Water: Difficult

10. Stability and reactivity

Conditions to be avoided: No decomposition if used according to specifications

Materials to be avoided: Strong Oxidizers

Dangerous reactions: No dangerous reactions known

Dangerous products of composition: None

11. Toxicological information

<u>Components</u>	<u>Type</u>	<u>Value</u>	<u>Species</u>
propane	inhalative LC50	658mg/L/4h	Rat
butane	inhalative LC50	680mg/L/2h	mouse

Primary irritant effect:

On the skin: Irritant for skin

On the eye: Irritant for eye

Sensitization: No data

12. Ecological information

Resolution: No data

Accumulation: No data

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13. Disposal considerations

Disposal of used paint or containers must be done under authorized industrial officials.

Do not release contaminated water into sewage system or river.

System to prevent fuel fumes as HCl, HF, CO is needed in case of incineration.

14. Transport information

Ensure there is no leakage from container, up side down or damage from falling.

15. Regulatory information

Code letter and hazard designation of product:

Highly flammable

Hazard-determining components of labeling:

Butane, propane

Risk phrases:

Harmful by inhalation, in contact with skin and if swallowed.

Highly flammable

Irritating to skin

Safety phrases:

Avoid contact with skin and eyes

If swallowed, seek medical advice immediately and show this container or label

Keep away from sources of ignition. No smoking.

16. Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

UN No. 1950

IMDG (P. 3129) Class 2.1

ICAO/IATA Class 3 /II

PAT 305 Y 305 CAO 307

IMCO RFG