Class 2.1

1075

Product Safety Data Sheet

[Maker information]

Name of company: NAKANISHI INC.

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Responsible department: Quality Assurance Department

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		ric	Jared. August 15, 2002				
Serial No.: 103136K							
[Product name]			Panaspray PLUS Z182100				
[Product identification of Product classification of Product classification of Product classification of Product identification of Product identific	n	Lubri	cant (Aerosol) (UN1950)				
[Substance identifica Distinction (single p Main component		Lubri Solve	ure cant (Ester lubricant, additive) ent (Ethanol) or propellant (Propane, butane)				
Component	Content	CAS No.	Number under the Law concerning the Examination & Regulation of Manufacture etc., of Chemical Substances	UN Namber	UN classification		
Ester lubricant, additive	5-10	Confidential information	Confidential information	None	None		
Ethanol (Notification required under the Occupational Health and Safety Law)	25-35	64-17-5	(2) -202	1170	Class 3.2 Grade II		
Propage	15-25	74-98-6	(2)-360	1075	Class 2.1		

Note:

Butane (Notification

Occupational Health and Safety Law)

required under the

The information in [] after component designation regards the following:

75-28-5

106-97-8

PRTR Special 1: Chemical substance specified as specific class I chemical substance under the Law Concerning the

Promotion of Understanding and Management of Emissions into the Environment of Specific Chemical

(2)-4

Substances

40-50

PRTR-1:

Chemical substance specified as class 1 chemical substance under the Law Concerning the Promotion of Understanding and Management of Emissions into the Environment of Specific Chemical Substances

PRTR-2:

Chemical substance specified as class 2 chemical substance under the Law Concerning the Promotion of Understanding and Management of Emissions into the Environment of Specific Chemical Substances

Notification required under the Occupational Health and Safety Law: Substance with its notification required under the Occupational Health and Safety Law

[Classification of hazardousness and harmfulness] Inflammable liquid, high-pressure gas Name under classification The lubricant contains an inflammable gas and is inflammable at Hazardousness room temperature. Vapor produces an air-explosive gas mixture. The lubricant contains a combustible gas. The gas, if left as is, leads to a risk of explosion. The lubricant is an irritant to skin and eyes. When the lubricant Harmfulness is swallowed or its vapor is inhaled in high concentrations, headaches, dizziness, vomiting, or blackouts can result. The lubricant is harmful to aqueous living things when in high Environmental effect concentrations.

[First-aid measures] Eye contact	Immediately wash eyes with clean water for 15 minutes or more and seek					
Skin contact	medical attention. Immediately wipe off lubricant with a cloth and wash skin clean with water. Immediately move the affected person to a place with fresh air and keep him/her warm and quiet and seek medical attention. If he/she experiences irregular breathing or has already stopped breathing, carry out artificial					
Vapor inhalation						
Ingestion	respiration. Force the person to drink water until he/she vomits. If he/she has already lost consciousness, do not give him/her anything but immediately seek medical attention.					
[Action at the time of fire]	·					
Fire-fighting methods	(In case of a surrounding fire) Promptly move the container to a safe place.					
	If the lubricant cannot be moved, sprinkle the container and its surroundings with water and cool down the container.					
	(If the lubricant has caught fire) At the initial stage of a fire, use powder carbon dioxide, dry sand, etc. In case of a larger fire, it is effective to use a foam fire extinguisher and block					
	out the air. Wear proper protective equipment (rescue suit) and extinguish the fire from					
	the windward side.					
Fire-fighting agent	Immediately remove any inflammable items from the surrounding area. Powder carbon dioxide, foam, and dry sand					
[Measures if the lubricant leaks]						
	Instruct people on the leeward side to seek shelter. Rope off the area where a leak has occurred to keep people away.					
	Immediately remove any item that would act as a source of a fire.					
	When necessary measures must be taken, wear proper protective equipment (gloves, protective mask, protective glasses, etc.). Do not stay on the leeward side.					
	Prepare suitable fire extinguisher(s) in case of accidents.					
(Small amounts of leaking lubricant)	Supply earth and sand to absorb the lubricant before collecting it in an empty container.					
(Large amounts of leaking lubricant)	Use earth and sand to stop the flow of leaking lubricant and lead the lubricant to a safe area. Then cover the surface of the liquid with foam and collect as much of the liquid as possible in an empty container.					
[Notes for handling]	Handle the lubricant in a well-ventilated place.					
	Do not spray the lubricant toward a fire. Do not place the container of the lubricant in a place that may become hot, or the container may explode.					
	Wear proper protective equipment so as to prevent the lubricant from					
	contacting skin or vapor inhalation. Keep the source of vapor airtight or provide a local exhaust system.					
	Be careful about fire. It is desirable that electrical equipment should be					
	constructed to be explosion proof. The lubricant must be handled at room temperature as a rule while paying attention to prevent moisture and dirt from entering the lubricant.					
[Notes for storage]	Avoid direct sunlight and store the lubricant in a well-ventilated dark and coo					
	place. Keep the lubricant as far away as possible from fire and sources of heat. Do not place the lubricant in a place whose temperature exceeds 40°C. Keep the lubricant isolated from perchloric acid, hydrogen peroxide water, sodium peroxide, chromic acid, and nitric acid.					

							
[Measures for preventing	g exposure]		_	ъ.			
Chemical designation		Ethanol	Propane	Butane			
Controlled concentration		lo prescription	No prescription	No prescription			
Allowable concentration			1000	1000			
Japan Society of Occupa	tional Health N	lo prescription	1000 ppm	1000 ppm 1800 mg/m ³			
ACGIH	7.7	1880 mg/m ²	1800 mg/m ³				
Equipment measures		Keep the source of vapor airtight or provide a local exhaust system. Do not handle the equipment near an ignition source.					
				arce.			
Protective equipment	Use	equipment of the exp	iosion proof type.				
			oves, and masks for org	game gases, as			
	requi	irea.		•			
[Physical and chemical p	roperties						
i nysicai and chemicai p	Lubricant	Propane	Isobutan	Normal butan			
Odor	Almost none	Almost none	Almost none	Almost none			
Odol	Colorless and	7 11111000 110112					
	transparent liquid		G 1 ()	Ø-11			
Appearance	Separation in two	Colorless and	Colorless and	Colorless and			
rippouranee	layers at low	transparent liquid	transparent liquid	transparent liquid			
	temperatures						
Specific gravity	0.803	0.501 (Liquid)	0.557 (Liquid)	0.579 (Liquid)			
Boiling point	No data available	-42.04 ´	-11.7	-Ò.5 Î			
Vapor pressure	No data available	0.735MPa	0.210MPa	0.116MPa			
Water solubility	Soluble in water	Insoluble in water	Insoluble in water	Insoluble in water			
Others							
			<u>.</u>	<u> </u>			
[Stability and reactivity]	* 1	ъ	T-alton	Normal butan			
	Lubricant	Propane	Isobutan				
Firing point	12.0°C	-90°C	-81°C	-72°C 550°C			
Ignition point	363°C	493°C	405°C	330°C			
Explosion limit	No information	2.2-9.5%	1.8-8.5%	1.8-8.5%			
Cuantamasia combination	available None	None	None	None			
Spontaneous combustion Reactivity with water	None	None	None	None			
Oxidizability	None	None	None	None			
Self reaction and	HOULE						
explosiveness		Vapor procedures a	n air-explosive gas mix	kture.			
Reactivity and stability	Stable during normal use and not reactive						
Other hazard information		No information available					
Office hazzira information		212 1111					
[Harmfulness informatio	n]						
Acridity	Irritant to skin a	nd mucous membrane					
	Skin contact wit	h a liquefied gas in a	liquid state may result	in a dry ice burn.			
Sensitivity property		d contact with skin c	an result in a defatting	of skin and thereby is			
	an irritation.		***				
Acute toxicity			g its vapor in high cond	centrations can result i			
		ness or blackouts.	11	ا - بالمانية ، منظلا الممالة			
Chronic toxicity	The lubricant at	tects the central nerv	ous system, liver, and	blood, thus resulting I			
	a drop in the pov	wer of attention, brad	ypragia, injury to the li	ver, and anemia.			
Carcinogenic property	No information	avanable					

[Information on environmental effects]

Decomposability No information available Eco toxicity No information available

[Notes for disposing the lubricant]

Use up the lubricant before disposing of the container.

Do not throw the container into a fire even after the lubricant is used up, as the

container may explode.

If the container is disposed, press the push button in a fire-free outdoor area and spray the lubricant at an unwanted article such as old newspapers to completely remove the lubricant from the container. (After spraying the lubricant, ensure that

there is no spraying noise.)

Do not puncture a hole in the container unless a directive has been issued by the local government. When puncturing a hole in the container, use a commercially

available punch press while being careful about any of the lubricant.

Request an industrial waste disposal professional licensed by the local government to dispose of the container and the lubricant contained. Properly dispose of

industrial waste according to relevant laws and regulations.

[Notes for transportation]

Follow the general precautions in Item Notes for handling and Notes for storage. When transporting the lubricant in a container, keep the container at 40°C or less. In addition, load lubricant containers in such a way as to avoid direct sunlight, falls, drops, and damage to the container and take proper measures to prevent the collapse of cargo piles.

UN number: 1950 (Aerosol)

[Applicable laws and regulations]

Fire Defense Law

Material with its notification required under the Occupational Health and Safety Law Article 2 Hazardous material, Classification 4, First oils First hazardous materials, separate sheet, Case of enforcement (inflammables and combustibles)

62 Ethanol, separate sheet, the 9th case of enforcement (Materials

with concentration of 1%)

Danger regulations

Aviation Law

480, butane, separate sheet, the 9th case of enforcement Article 3, hazardous materials notification, separate sheet, the 5th inflammable liquid liquids, the 2nd high pressure gas

Article 194, applicable rules, hazardous materials notification, separate sheet, the 3rd inflammable liquids, the 2nd high pressure

Harbor regulations

Article 12, applicable rules, hazardous material (inflammable liquids, high pressure gas)

Not compliant

Law Concerning the Promotion of Understanding and Management of Emissions into the Environment of Specific

Chemical Substances

High Pressure Gas Safety Law

Not applicable (Aerosol)

[References]

12093 Chemical Commodities (the Chemical Daily)

New Solvent Pocket Book (The Society of Synthetic Organic Chemistry, Japan)

Material Maker Product Safety Data Sheet

Guidelines for product safety data sheet preparation (Nippon Chemical Industrial Co., Ltd.)

Precautions

This product safety data sheet has been prepared based on the most accurate and reliable references, information, and data currently available as reference information for ensuring safe use and handling. However, much of the information contained has been obtained outside the company. Therefore, the accuracy and reliability of the information contained cannot be guaranteed. Nor is any warranty of these products indicated made.

Notes contained herein concerning health and safety do not cover all effects on people, the environment, and health. Because all materials can contain unknown risks or harmfulness, great care must be exercised in handling

the lubricant.

When using the lubricant, you are asked to follow related laws and regulations under your own discretion and responsibility with reference to the product safety data sheet and to set requirements for its safe use. When you have obtained the latest information on the lubricant, you are also asked to follow the information contained therein and use the lubricant safely.