

# **Safety Data Sheet**

SDS Revision
Date: 03/01/2023

# **NO.29CN**

# 1. CHEMICALS AND COMPANY IDENTIFICATION

Chemical Name: NO.29CN

Other Names:

**Use recommendations and limitations:** See Technical Data Sheet.

Name, addresses, and phone numbers of the manufacturer, importer or supplier:

NANPAO RESINS VIETNAM ENTERPRISE LRD.

NO. 10 Thong Nhat Road, Song Than 2 Industrial Zone, Binh Duong Province, Viet Nam.

+84-274-3790378 /Fax: +84-274-3790377 (Vietnam factory)

Emergency contact phone numbers/fax numbers:

+84-274-3790378 /Fax: +84-274-3790377(Vietnam factory)

# 2. HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

Flammable Liquid, category 2;H225 Highly Flammable liquid and vapor.

Serious eye damage / eye irritation, category 2;H319 Causes serious eye irritation.

Single target organ toxicity, single exposure category 3;H336 May cause drowsiness or dizziness.

#### Label contents:

Classification of hazards in Taiwan

#### Pictograms:





Flame Exclamation Mark

Signal Word: Danger

#### **Hazard Statements:**

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H336 May cause drowsiness and dizziness.

# Precautionary Statements:

#### [Prevention]:

P210 Keep away from heat, sparks, open flames, hot surfaces - No smoking.

P233 Keep container tightly closed.

- P235 Keep cool.
- P240 Ground, bond container and receiving equipment.
- P241 Use explosion-proof electrical, ventilating, light, equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P261 Avoid breathing dust, fume, gas, mist, vapors, spray.
- P264 Wash thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves, eye protection, face protection.

#### [Response]:

P303+361+353 IF ON SKIN (or hair): Remove, take off immediately all contaminated clothing. Rinse skin with water, shower.

P304+312 IF INHALED: Call a poison center or doctor or physician if you feel unwell.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P337+313 If eye irritation persists: Get medical advice or attention.

P370+378 In case of fire: Use extinguishing media listed in section 5 of SDS for extinction.

#### [Storage]:

P403+233 Store in a well ventilated place. Keep container tightly closed.

P405 Store locked up.

#### [Disposal]:

P501 Dispose of contents or container in accordance with local and national regulations.

**Other hazards:** This product contains no PBT/vPvB chemicals.

# 3. INGREDIENTS IDENTIFICATION INFORMATION

# **MIXTURE:**

This product contains the following substances that present a hazard within the regulations of Taiwan.

Chemical Property:			
Chemical Name	CAS Number	Concentration or concentration ranges (% of contents)	
Methyl acetate	CAS Number: 0000079-20- 9		Flammable Liquid, category 2;H225 Serious eye damage / eye irritation, category 2;H319

	EC No.: 201-185-2		Single target organ toxicity, single exposure
	Index No.: 607-021-00-X		category 3;H336
Ethyl acetate	CAS Number: 0000141-78-	30 - 40	Flammable Liquid, category 2;H225
	6		Serious eye damage / eye irritation, category
	EC No.: 205-500-4		2;Н319
	Index No.: 607-022-00-5		Single target organ toxicity, single exposure
			category 3;H336
Methyl ethyl ketone	CAS Number: 0000078-93-	25 - 35	Flammable Liquid, category 2;H225
	3		Serious eye damage / eye irritation, category
	EC No.: 201-159-0		2;Н319
	Index No.: 606-002-00-3		Single target organ toxicity, single exposure
			category 3;H336

# **Non-hazardous Components**

Ingredient/Chemical Designations	Weight %	GHS Classification
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# 4. FIRST-AID MEASURES

# The first-aid measures for different exposure routes :

#### General:

In all cases of doubt, or when symptoms persist, seek medical attention.

Never give anything by mouth to an unconscious person.

#### Inhalation:

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

#### Skin contact :

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

#### Eve contact:

Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

## Ingestion:

If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

#### Most important symptoms and hazardous effects:

#### General:

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

#### Inhalation:

May cause drowsiness or dizziness.

## Eye contact:

Causes serious eye irritation.

#### Skin contact:

No available information

#### The protection of first-aiders:

Wear C-class protective equipment and stay in a safe area to implement first aid.

#### Notes to physicians:

Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

## Suitable fire extinguishing media:

Recommended extinguishing media; alcohol resistant foam, CO<sub>2</sub>, powder, water spray.

# Special hazards may be encountered during fire-fighting:

Hazardous decomposition: Carbon Dioxide, Carbon Monoxide

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

Keep container tightly closed.

Keep cool.

Ground, bond container and receiving equipment.

Use explosion-proof electrical, ventilating, light, equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing dust, fume, gas, mist, vapors, spray.

#### Special fire-fighting methods:

No available information.

## Special equipment and protections for fire-fighters:

As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full facepiece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean-up immediately after fire. No smoking.

# 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions:

Put on appropriate personal protective equipment (see section 8).

### **Environmental precautions:**

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

# Methods for cleaning up:

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8. Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations.

# 7. SAFE HANDLING AND STORAGE MEASURES

## Handling:

See section 2 for further details. - [Prevention]:

#### Storage:

Handle containers carefully to prevent damage and spillage.

Incompatible materials: No data available.

See section 2 for further details. - [Storage]:

# 8. EXPOSURE CONTROLS MEASURES

#### **Engineering Controls:**

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Control parameters						
Ingredient	weight	urs time ed average ure limits	Short-term exposure limits	Maximum exposure limits		Other Regulations
0000078-93-3 / Methyl ethyl ketone	200 ppn	n TWA;	250 ppm 737.5	0.02 ppm, 0.2	ACGIH	TWA: 50 ppmSTEL: 100 ppm
	590 mg/	m3 TWA	mg/m3	mg/m3		TWA 200 ppm (590 mg/m3) ST 300 ppm (885 mg/m3)
0000079-20-9 / Methyl acetate	200 ppn	n TWA;	250 ppm 757.5	No available	ACGIH	TWA: 200 ppmSTEL: 250 ppm
	606 mg/	m3 TWA	mg/m3	information		TWA 200 ppm (610 mg/m3) ST 250 ppm (760 mg/m3)
0000141-78-6 / Ethyl acetate	400 ppn	n TWA;	500 ppm 1440	No available	ACGIH	TWA: 150 ppm
	1440 m	g/m3 TWA	mg/m3	information	NIOSH	TWA 400 ppm (1400 mg/m3)
Ingredient	•				BEI	
0000078-93-3 /Methyl ethyl ketone (Methyl the MEK ethyl ketone)		The MEK i	n urine after work is	2mg/L (Ns)		
0000079-20-9 /Methyl acetate (Methyl acetate) No available		e information				
0000141-78-6 /Ethyl acetate (Ethyl acetate) No available		e information				
Personal protective equipment :						

# **Respiratory protection:**

If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

# **Hand protection:**

Protective gloves recommended.

# Eye protection:

Protective safety glasses recommended

# Skin and body protection:

Avoid skin contact.

# Hygiene measures:

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (state, color, etc.) :	Odor:
Colorless transparent Liquid	Like ketone
Odor threshold :	Melting point :
No available information	No available information
pH value :	<b>Boiling point / Boiling range:</b>
No available information	70.6 °C
Flammability (solid, liquid):	Flashpoint:
No available information	Test method(Open cup or Close cup):
	-6 °C (Close cup)
Decomposition temperature :	Explosion limits:
No available information	1.8% - 16%
Auto-ignition temperature :	Vapor Density:
429°C	2.88 (Air=1)
Vapor pressure :	Solubility:
109mmHg(20°C)	Insoluble
Density:	Evaporation rate:
0.83	3.6 (Butyl Acetate=1)
Octanol-Water partition coefficient :	Explosive properties :
No available information	No available information
Oxdising properties :	Odor threshold (Detect):
No available information	2-180 ppm
Odor threshold (Sense):	
5.4-300 ppm	

# 10. STABILITY AND REACTIVITY

## Reactivity:

Hazardous Polymerization will not occur.

#### **Chemical stability:**

Stable under normal circumstances.

#### Possible hazardous reactions occurring under specific conditions:

No available information

#### Conditions to avoid:

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

#### Materials to avoid:

No data available.

#### Hazardous decomposition products:

Carbon Dioxide, Carbon Monoxide

# 11. TOXICOLOGICAL INFORMATION

Exposure routes/symptom:			
Exposure routes	Category	Symptom	
Serious eye damage/irritation	2	Causes serious eye irritation.	
STOT-single exposure	3	May cause drowsiness or dizziness.	

## Acute toxicity

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

Ingredient	Oral LD50,	Skin LD50, mg/kg	Inhalation Vapour LC50,	Inhalation Dust/Mist LC50,	Inhalation Gas LC50,
	8'8		mg/L/4hr	mg/L/4hr	ppm
Methyl ethyl ketone - (78-93-3)	No available	6,480.00, Rabbit -	32.00, Mouse -	No available	No available
	information	Category: NA	Category: NA	information	information
Methyl acetate - (79-20-9)	6,482.00, Rat -	>2,000.00, Rat -	No available	No available	No available
	Category: NA	Category: 5	information	information	information
Ethyl acetate - (141-78-6)	4,934.00, Rat -	20,001.00, Rabbit	58.60, Rat -	No available	No available
	Category: 5	- Category: NA	Category: NA	information	information

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Carcinoge	n Data		
CAS No.	Ingredient	Source	Value
0000078-93-3	Methyl ethyl ketone	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0000079-20-9	Methyl acetate	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0000141-78-6	Ethyl acetate	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

# Chronic toxicity or long term toxicity:

# 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

No additional information provided for this product. See Section 3 for chemical specific data.

Ingredient	96 hr LC50 fish,	48 hr EC50 crustacea,	ErC50 algae,	Biodegradability
ngreuent	mg/l	mg/l	mg/l	%
Methyl ethyl ketone - (78-93-3)	2,993.00, Pimephales	308.00, Daphnia	2,029.00 (96 hr), Pseudokirchnerella	98.00
	promelas	magna	subcapitata	
Methyl acetate - (79-20-9)	350.00, Danio rerio	1,026.70, Daphnia	120.00 (72 hr), Desmodesmus	70.00
		magna	subspicatus	
Ethyl acetate - (141-78-6)	230.00, Pimephales	100.00, Daphnia	>100.00 (72 hr), Desmodesmus	60.00
	promelas	magna	subspicatus	

# Persistence and degradation:

There is no data available on the preparation itself.

# Organism accumulation:

No available information

# Movement through soil, Koc:

No available information

#### Results of PBT and vPvB assessment:

This product contains no PBT/vPvB chemicals.

## Other negative effects:

No available information

# 13. WASTE DISPOSAL MEASURES

# Methods of waste disposal:

Observe all federal, state and local regulations when disposing of this substance.

# 14. TRANSPORT INFORMATION

	DOT (Domestic	IMO / IMDG (Ocean	ICAO/IATA
	Surface	Transportation)	
	Transportation)		
United Nation number	UN1993	UN1993	UN1993
(UN No)			
UN proper shipping	Flammable liquids,	Flammable liquids, n.o.s.,	Flammable liquids, n.o.s.,
name	n.o.s.	(Methyl ethyl ketone,Ethyl	(Methyl ethyl ketone,Ethyl
		acetate,Methyl acetate)	acetate,Methyl acetate)
Transport hazard	DOT Hazard	IMDG: 3	Air class: 3
classification	Class: 3	Sub Class: Not Applicable	
Packing group	II	II	II
ERG Guide No.	128		
Ocean contaminants	No		
(Yes/No)			
Specific transport	No available inform	nation	
measures and			
precautionary			
conditions :			

# 15. REGULATORY INFORMATION

#### **Applicable regulations:**

Occupational Safety and Health Act

Toxic and Concerned Chemical Substances Control Act

Standards of Permissible Exposure Limits of Airborne Hazardous Substances in Workplace

Regulations for the Labeling and Hazard Communication of Hazardous Chemicals

Regulations Governing Designating and Handling of Priority Management Chemicals

Methods and Facilities Standards for the Storage, Clearance and Disposal of Industrial Waste

#### Toxic and Concerned Chemical Substances Transportation Management Regulations:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

# Taiwan - Priority Management Chemicals - Carcinogenic, Mutagenic, and Reproductive Toxic (CMR) Substances:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

## Taiwan - Priority Management Chemicals - Substances with Physical and Health Hazards:

Ethyl acetate

Mehtyl acetate

Methyl ethyl ketone

# Organic Solvents, Taiwan OSHA:

Ethyl acetate

Mehtyl acetate

Methyl ethyl ketone

# Specified Chemical Substances, Taiwan OSHA:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

# Specified Management Substances, Taiwan OSHA:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

## Jobsite Monitoring for Organic Solvents, Taiwan OSHA:

Ethyl acetate

Mehtyl acetate

Methyl ethyl ketone

## Jobsite Monitoring for Specfied Chemical Substance, Taiwan OSHA:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

# Monitoring Records kept for 30 years, Taiwan OSHA:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

# 16. OTHER INFORMATION

	1. Department of Occupational Safety and Health, GHS Chemical Global Harmonization		
System website (http://ghs.osha.gov.tw/CHT/masterpage/index_CHT.aspx)			
Reference	2. Environmental Protection Department of the Executive Yuan Department of Toxic		
	Chemical Substances (http://www.epa.gov.tw/np.asp?ctNode=31422∓=epa)		
	3. The website of the European Chemical Agency. (http://echa.europa.eu/)		
Prepared by	Title Assistant Name (Signature) LE THI TRAM		
Issue Date	2023-01-03		

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