Creation Date 2023/11/29

Safety Data Sheet

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name Acryl Dine B

Name of Supplier Shinko Plastics Co., Ltd.

Address 1-5-24, Minamisuna, Koto-ku, Tokyo

Phone Number 03-3645-8106
Recommended Use Adhesives for Resins

of the Chemical

Restriction on Use If the product is to be used for applications other

than those recommended, seek the judgment of an

expert/chemical substance specialist, etc.

Section 2 - HAZARDS IDENTIFICATION

GHS Classification of the Chemical

Physical Hazards Flammable liquids-Category 2
Health Hazards Acute toxicity - oral-Category 4

Acute toxicity - inhalation(vapour)-Category 3 Serious eye damage/eye irritation-Category 2A

Carcinogenicity-Category 1B

Specific target organ toxicity(single exposure)—Category 1 (liver blood system respiratory apparatus gastrointestinal tract cardiovascular system kidney central nervous system)

Specific target organ toxicity(single exposure)-

Category 3 (narcotic effects)

Specific target organ toxicity(repeated exposure)—Category 1 (liver thyroid cardiovascular system nervous system)

Specific target organ toxicity(repeated exposure)—Category 2(blood system kidney)

Environmental Hazarc Hazardous to aquatic environment short-term

(acute)-Category 2

Hazards except for cited above are Not classified

or Classification not possible.

GHS Label Elements

Pictograms



Signal Word

Danger

Hazard Statements Highly flammable liquid and vapour

Harmful if swallowed

Causes serious eye irritation

Toxic if inhaled

May cause drowsiness and dizziness

May cause cancer

Causes damage to liver, blood system, respiratory apparatus, gastrointestinal tract, cardiovascular system, kidney, central nervous system.

Causes damage to liver,thyroid,cardiovascular system,nervous system through prolonged or repeated exposure

May cause damage to blood system, kidney through prolonged or repeated exposure

Toxic to aquatic life

Precautionary Statements

Prevention

Obtain special instructions before use.

Do not handle until all safety precautions have

been read and understood.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep container tightly closed.

Ground or bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting.

Use only non-sparking tools.

Take precautionary measures against static

discharge.

Do not breathe

dust/fume/gas/mist/vapours/spray.
Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye

protection/face protection.

Response

IF ON SKIN (or hair): Remove/Take off

immediately all contaminated clothing. Rinse skin

with water/shower.

IF INHALED: Remove to fresh air and keep at rest

in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If exposed or concerned, get medical advice and attention.

0 11 1 1

Call a doctor.

Call a doctor if you feel unwell.

Get medical advice and attention if you feel unwell.

Rinse mouth.

If eye irritation persists: Get medical advice and

attention.

In case of fire: Use appropriate media for

extinction.

Storage Store in a well-ventilated place keeping container

tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

Disposal Dispose of contents and container in accordance

with local, regional, national and international

regulations (to be specified).

Outsource the work to a professional waste

disposal company.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance

Mixture

or Mixture

			ENCS No./ISHL No.		
Generic Name	Concentration or Its Ranges	Formula	Chemical Substance s Control Act	ISHL No.	CAS RN
Acrylic Resins	5.4%	(C5H8O2)x	(6)-524	Existing	9011-14-7
Cyclohexane	2.8%	C6H12	(3)-2233	Existing	110-82-7
1,2-Dichloroethane	91.8%	C2H4Cl2	(2)-54	2-(13)-23	107-06-2

Impurities and/or Stabilizing Additives which Contribute to the GHS Classification No information available

Chemical Substances

Control Act

Priority Assessment Chemical

Substances (Act, Art.2, Para.5)

1,2-Dichloroethane (Government

Ordinance Number: 11)

Cyclohexane (Government Ordinance

Number: 96)

Industrial Safety and

Health Act

Dangerous or Harmful
Substances for Notification of

Chemical Name etc. on SDS (Act, Art.57-2, Enforcement Order, Art.18-2 Item 1 and 2,

Appended Table 9)

Cyclohexane (Government Ordinance

Number: 232) (Less than 10%)

Dichloroethane (Government

Ordinance Number: 240) (90%~100%)

Act for PRTR and Promotion of Chemical

Management

Class 1 Designated Chemical Substances (Act, Art.2, Para.2, Enforcement Order, Art.1

Appended Table 1)

1,2-Dichloroethane (JPSN:157)(92%)

Cyclohexane (JPSN: 629) (2.8%)

Section 4 - FIRST AID MEASURES

Inhalation

IF INHALED: Remove to fresh air and keep at rest

in a position comfortable for breathing.

Call a doctor.

If exposed or concerned, get medical advice and attention.

Skin Contact

Ingestion

IF ON SKIN (or hair): Remove/Take off

immediately all contaminated clothing. Rinse skin

with water/shower.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice and attention.

If exposed or concerned, get medical advice and

attention.

Eye Contact IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice and

attention.

If exposed or concerned, get medical advice and

attention.

IF SWALLOWED: Immediately call a doctor.

Rinse mouth.

If exposed or concerned, get medical advice and

attention.

Being a volatile liquid, forcing to vomit increases risks such as aspirating into the lungs. Arrange medical treatment immediately. Also, have mouth

rinsed thoroughly with water.

Never give anything by mouth to an unconscious

person.

Section 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Unsuitable Extinguishing Media

Small fires: Dry chemical, CO2, water spray or

regular foam.

Large fires: Water spray, fog or regular foam.

Straight streams.

Risk of producing harmful gases such as carbon monoxide. Avoid inhalation of smoke or gases.

Specific Fire Fighting

Specific Hazards

In case of fire: Use appropriate media for

extinction.

Fight fire from upwind position if possible

In surrounding fire, move containers instantly to

safe place, if movable,

Prohibit unauthorized staff from entering the area

around the fire.

Keep unnecessary people away.

Protection of Fire Fighter Use goggles in combination with dust mask, and

another protections as appropriate to situation.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and **Emergency Procedures**

Use goggles in combination with dust mask, and another protections as appropriate to situation.

Large spills :Evacuate area. Ensure adequate ventilation. Environmental Precautions

Methods and Materials for Containment and Cleaning up

Do not discharge into the drains, surface waters or

ground water directly.

small spill: absorb with material such as noncombustible materialwash thoroughly after handling

Large spills: Dike spills and dispose of in safe area.

If not harmful, evaporate and disperse while being careful of fire and ventilation. You may also spray water to accelerate the evaporation.

Secondary Disaster Prevention Measures Keep away from sources of ignition and prepare extinguishing media.

Avoid spreading product as it may cause accidents resulting in slips and falls.

Do not recklessly walk on the spillage.

Section 7 - HANDLING AND STORAGE

Handling

Technical Measures Ground/bond container and receiving equipment.

Use only non-sparking tools.

Use explosion-proof electrical/ventilating/lighting.

Take precautionary measures against static discharge.

Use local exhaust ventilation in case of production of fume or mist.

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Precautions for Safe Fire Prohibited Handling

Do not handle until all safety precautions have

been read and understood.

Avoid release to the environment.

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eve protection/face protection.

Keep cool.

Do not breathe

dust/fume/gas/mist/vapours/spray.

Obtain special instructions before use.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep container tightly closed.

Prevents Handling of Refer to "10. Stability and reactivity".

Incompatible Substances or Mixtures

Specific Hygiene

Wash hands thoroughly after handling.

Measures

Storage

Conditions for Safe Fire Prohibited Storage

Store locked up.

Store in a well-ventilated place keeping container tightly closed.

The storage facility should be designed with fireproof construction and beams should use a noncombustible material.

The roof of a storage facility should be made of a non-combustible material and use metals or other lightweight non-combustible materials. No ceiling should be installed.

The storage floor should be protected from water penetration, or should have water-proof construction.

The storage floor should have penetration-proof construction against dangerous goods and be inclined adequately. A proper sump should be provided to catch any spills.

The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods.

Safe Materials used No information available

Packagings/Contain

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

	Japan	Permission concentration (Exposure Limits, Biological Exposure Indices)		
	Administration Level	Japan Society for Occupational Health	ACGIH	
Acrylic Resins	Not listed	Not listed	Not listed	
Cyclohexane	Not listed	150ppm(520mg/m3)	Listed(*)	
1,2-Dichloroethane	10ppm	10ppm(40mg/m3)	Listed(*)	

^{*)}Please refer to the following URL for ACGIH setting values.

Reference: https://www.acgih.org/

Engineering Controls

Use local exhaust ventilation in case of production

of fume or mist.

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety

shower.

Use explosion-proof electrical equipment and

If necessary, wear respiratory protection.

prevent from static electricity.

Personal Protective Equipment

Respiratory Protection

Wear protective gloves.

Wear eye protection/face protection.

Hand Protection Eye/Face Protection

Wear protective clothing.

Skin and Body Protection

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid

Appearance Viscous liquid

Colour No data available

Odour Specific odour to product Melting Point/Freezing -40°C (1,2-Dichloroethane)

Point

Boiling Point or Initial 83~84°C (1,2-Dichloroethane)

Boiling Point and Boiling

Ranges

Combustible Combustible
Lower and Upper Lower No data available

Explosion Limit / Flammability Limit

Upper No data available

Flash Point 10°C (SETA closed cup)

Auto-Ignition No data available

Temperature

Decomposition No data available

Temperature

pH No data available Kinematic Viscosity No data available

Solubility 9.2 g/L (0°C) (1,2-Dichloroethane)

Partition coefficient: n- No data available

octanol/water (log value)

Vapour Pressure 10.6kPa (25°C) (1,2-Dichloroethane)

Density and/or Relative No data available

Density

Relative Gas Density

No data available
Particle Characteristics

No data available

Section 10 - STABILITY AND REACTIVITY

Reactivity Avoid contact with oxidizing agents: Reacts.

Chemical Stability Stable under normal conditions.

Possibility of Hazardous Reaction No hazardous reactions or polymerization may

occur, releasing excess pressure or heat, or creating other hazardous conditions.

creating other hazardous conditions.

Conditions to Avoid Avoid heat, flames, sparks and other sources of

ignition.

Incompatible substances Strong oxidizing agents, and strong bases.

Hazardous Decomposition Products Combustion produces carbon monoxide, carbon

dioxide, and hydrogen chloride.

Section 11 - TOXICOLOGICAL INFORMATION

Acute toxicity Oral Category 4:1,2-Dichloroethane(toxicity value

=670mg/kg source: NITE)

Not classified:Cyclohexane(toxicity value

=6240mg/kg source: NITE) No Data:Acrylic Resins

Calculation result = 729.8474946mg/kg. Classification result = Category 4.

Dermal

Not classified:1,2-Dichloroethane(toxicity value =2800mg/kg source: NITE), Cyclohexane(toxicity value =2500mg/kg source: NITE)

No Data: Acrylic Resins

Contains substance of unknown toxicity. Changed from Not classified to Classification not possible.

Inhalation

(Acute toxicity (Inhalation : Gases))

Does not fall under gas based on GHS definitions.

(Acute toxicity (Inhalation : Vapours))

Category 3:1.2-Dichloroethane(toxicity value

=1000ppm source: NITE)

Not classified:Cyclohexane(toxicity value

=9500ppm source: NITE) No Data: Acrylic Resins

Calculation result = 1085.8383815mg/kg. Classification result = Category 3. (Acute toxicity (Inhalation : dust/mist)) Unable to classify due to insufficient data. Category 2:Cyclohexane(source: NITE)

Not classified:1.2-Dichloroethane(source: NITE)

Skin corrosion/irritation

Serious eye damage/eye

irritation

No Data: Acrylic Resins

Substances classified as hazardous are below the concentration limit. Contains substance of unknown toxicity. Changed from Not classified to Classification not possible.

Category 2:Cyclohexane(source: NITE)

Category 2B:1,2-Dichloroethane(source: NITE)

No Data: Acrylic Resins

Eye Category 2B + Eye Category 2 >=

Concentration limit(10%). Classification result =

Category 2A.

Unable to classify due to insufficient data. Unable to classify due to insufficient data. Unable to classify due to insufficient data. Category 1B:1,2-Dichloroethane(source: NITE)

Respiratory sensitization Skin sensitization Germ cell mutagenicity Carcinogenicity

> Classification not possible: Cyclohexane (source: NITE)

No Data:Acrylic Resins 1,2-Dichloroethane ≥ 0.1%.

Classification result = Category 1B.

(Reproductive toxicity)

Not classified:Cyclohexane(source: NITE)

Classification not possible:1,2-Dichloroethane(source: NITE)

No Data: Acrylic Resins

Contains substance of unknown toxicity. Changed from Not classified to Classification not possible.

Reproductive toxicity

Specific target organ toxicity - Single exposure

Specific target organ toxicity – Repeated exposure

Aspiration hazard

Section 12 - ECOLOGICAL INFORMATION
Ecotoxicity
Hazardous to aquatic
environment short-term
(acute)

(Reproductive toxicity, effects on or via lactation)

No Data: Acrylic Resins

Category 1:1,2-Dichloroethane(organ=liver,blood system,respiratory apparatus,gastrointestinal tract,cardiovascular system,kidney,central nervous system source: NITE)

Category 2:Cyclohexane(organ=cardiovascular system source: NITE)

Category 3:1,2-Dichloroethane(organ=narcotic effect source: NITE), Cyclohexane(organ=narcotic effect,respiratory tract irritation source: NITE)

No Data:Acrylic Resins 1.2-Dichloroethane ≥ 10%.

Classification result = Category 1(liver, blood system, respiratory apparatus, gastrointestinal tract, cardiovascular system, kidney, central nervous system).

The sum of the components in Category 3(narcotic effect) \geq Concentration limit(20%).Classification result = Category 3(narcotic effect).

Ingredients not contributing to classification: Cyclohexane(Category 2 source: NITE)
Category 1:1,2-

Dichloroethane(organ=liver,thyroid,cardiovascular system,nervous system source: NITE)

Category 2:1,2-Dichloroethane(organ=blood,kidney source: NITE)

Classification not possible:Cyclohexane(source: NITE)

No Data:Acrylic Resins 1,2-Dichloroethane ≥ 10%. Classification result = Category 1(liver, thyroid, cardiovascular system, nervous system).

1,2-Dichloroethane ≥ 10%.
Classification result = Category 2(blood

Classification result = Category 2(blood system, kidney).

Unable to classify due to insufficient data.

Category 1:Cyclohexane(source: NITE)

Category 3:1,2-Dichloroethane(source: NITE)
No Data:Acrylic Resins
(M factor x 10 x Category 1) + Category 2 >=
Concentration limit(25%). Classification result =
Category 2.

Hazardous to aquatic environment long-term (chronic)

Category 3:Cyclohexane(source: NITE)

Not classified:1,2-Dichloroethane(source: NITE)

No Data:Acrylic Resins

No information available

(M factor x 100 x Category 1) + (10 x Category 2) + Category 3 >= Concentration limit(\$VALUE%). Contains substance of unknown toxicity. Changed from Not classified to Classification not possible.

Persistence and degradability

Bioaccumulative potential No information available

Mobility in soil

No information available Hazardous to the ozone

layer

Unable to classify due to insufficient data.

Section 13 - DISPOSAL CONSIDERATIONS

Residual Waste Dispose of contents and container in accordance

with local, regional, national and international

regulations (to be specified).

Outsource the work to a professional waste

disposal company.

Comply with the standards for The Special Control Industrial Wastes under the Waste

Disposal Public Cleansing Law (Japan) to dispose

of the concerned wastes.

Contaminated Container

and Packaging

Recycle containers after cleansing, or carry out the disposal under the related laws and regulations and the standards of the local governments.

In case of disposal of empty containers, remove the content thoroughly.

Section 14 - TRANSPORT INFORMATION

International Regulations Regulatory Complied with IMO.

Information by Sea

UN No. 1133

Proper Shipping ADHESIVES

Name. Class Packing Group

Marine Pollutant Not applicable Transport in bulk Not applicable

3 Π

according to **MARPOL**

73/78.Annex II.and

the IBC code

Regulatory Complied with ICAO/IATA.

Information by Air

UN No. 1133

Proper Shipping ADHESIVES

Name.

Class 3
Packing Group II

Regulations in Japan

Regulatory Informatio Complies with the Fire Service Act.

Regulatory Informatio Complies with the Marine Transportation Safety

Act

UN No. 1133

Proper Shipping Nam ADHESIVES

Class 3 Packing Group II

Marine Pollutant Not Applicable Transport in bulk Not Applicable

according to MARPOL

73/78,Annex II,and

the IBC code.

Regulatory Informatio Complies with the Civil Aeronautics Act

UN No. 1133

Proper Shipping Name ADHESIVES

Class 3 Packing Group II

Specific Safety Measures

Before transport containers shall be examined for external signs of damage, corrosion, leakage, etc.

In transport, loading of containers should be ensured protection from sunlight, to prevent damage, corrosion, leakage, and collapse of the

load.

Do not stack heavy goods.

Carry a yellow card when transferring.

Emergency Response Guide Number 128

Section 15 - REGULATORY INFORMATION

Three laws requirering offer of SDS

Industrial Safety and Applicable

Health Act Poisonous and

Poisonous and Not Applicable

Deleterious Substances

Act for PRTR and Applicable

Promotion of Chemical

Management

Main applicable domestic laws and regulations

Chemical Substances

Control Act

Priority Assessment Chemical Substances (Act, Art.2, Para.5)(1,2-Dichloroethane,Cyclohexane)

Industrial Safety and

Health Act

Group 2, Specified Chemical Substances, Special Organic Solvents (Ordinance on Prevention of Hazards Due to Specified Chemical Substances,

Art.2, Para.1, Item 2, 3-2, 3-3)(1,2-

Dichloroethane)

Dangerous or Harmful Substances for Labeling of

Chemical Name etc. (Act Art.57 Para.1,

Enforcement Order, Art.18 Item 1 and 2, Appended

Table No.9) (Cyclohexane, Dichloroethane)

Dangerous Substances, Flammable Substances (Enforcement Order, Art., Appended Table 1, Item 4)

Published Substances of the Guidelines for Preventing the Impairment of Workers' Health (Act, Art.28, Para.3, MHLW Noticed Guideline) (1,2-Dichloroethane)

Dangerous or Harmful Substances for Notification of Chemical Name etc. on SDS (Act, Art.57–2, Enforcement Order, Art.18–2 Item 1 and 2, Appended Table 9) (Cyclohexane, Dichloroethane)

Specified Chemical Substances, Substances under Special Supervision (Ordinance on Prevention of Hazards Due to Specified Chemical Substances, Art.38–3)(1,2–Dichloroethane)

Water Pollution Control Act

Hazardous Substances (Act, Art.2, Enforcement Order Art.2, Ministerial Ordinance to Provide for Effluent Standards, Art.1)(1,2-Dichloroethane)

Fire Service Act

Group 4, Flammable Liquids, Class 1 Petroleums, Water-insoluble liquids (Act, Art.2, Para.7, Appended Table 1, Group 4)

Air Pollution Control Act

Hazardous Air Pollutants, Priority Substances (Central Environment Council Report No. 9)(1,2-Dichloroethane)

Ship Safety Act

Flammable liquids (Regulations for the Carriage and Storage of Dangerous Goods in Ships, Art.3, Notification for Establishing Standards for the Carriage of Dangerous Goods in Ships., Appended Table 1)

Civil Aeronautics Act

Flammable liquids (Ordinance for Enforcement, Art.194, Notification for Establishing Standards for the Carriage of Explosives etc., Appended Table 1)

Waste Management and Public Cleansing Act Act for PRTR and Promotion of Chemical Management Specially Controlled Industrial Wastes, (Act, Art.2, Para.5, Enforcement Order, Art.2-4)
Class 1 Designated Chemical Substances (Act,

Art.2, Para.2, Enforcement Order, Art.1 Appended

Table 1)(1,2-Dichloroethane,Cyclohexane)

Labor Standard Act

Chemical Substances Causing Illness (Act, Art.75, Para.2, Enforcement Regulations, Appended Table No.1–2, Item 4–1)(1,2–Dichloroethane)

Soil Contamination Countermeasure Act Specified Hazardous Substances (Act, Art.2, Para. 1, Enforcement Order, Art.1)(1,2-Dichloroethane)

Section 16 - OTHER INFORMATION Technical Contact Literature

Shinko Plastics Co., Ltd. NITE GHS Classification published data EU CLP Regulation, AnnexVI

Disclaimer

The statements herein are made by the generally available data and our own data, however we are not able to investigate all of the present scientific and technology information, therefore we do not guarantee any matters.

And the attention matters are in regard of generally handlings, so the user shall take care with the special attention to the special handlings.