

Creation Date 2023/11/29

Safety Data Sheet

Section 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

| | |
|---------------------------------|--|
| Product Name | Acryl Dine A |
| Name of Supplier | Shinko Plastics Co., Ltd. |
| Address | 1-5-24, Minamisuna,Koto-ku, Tokyo |
| Phone Number | 03-3645-8106 |
| Recommended Use of the Chemical | Adhesives for Resins |
| 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 – inhalation(vapour)–Category 4 Skin corrosion/irritation–Category 2 Serious eye damage/eye irritation–Category 2A Carcinogenicity–Category 1A Reproductive toxicity–Category 1A Additional category: Effects on or via lactation Specific target organ toxicity(single exposure)– Category 1 (respiratory apparatus central nervous system) Specific target organ toxicity(single exposure)– Category 3 (narcotic effects) Specific target organ toxicity(repeated exposure)– Category 1 (liver central nervous system reproductive organs (male)) Specific target organ toxicity(repeated exposure)– Category 2 (kidney) |
| Environmental Hazards | Hazardous to aquatic environment short-term (acute)–Category 3 Hazardous to aquatic environment long-term (chronic)–Category 3 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 Causes skin irritation Causes serious eye irritation Harmful if inhaled May cause drowsiness and dizziness May cause cancer May damage fertility or the unborn child |

May cause harm to breast-fed children
Causes damage to respiratory apparatus,central nervous system
Causes damage to liver,central nervous system,reproductive organs (male) through prolonged or repeated exposure
May cause damage to kidney through prolonged or repeated exposure
Harmful to aquatic life with long lasting effects

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.
Avoid contact during pregnancy/while nursing.
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: Wash with plenty of soap and water.

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.
Call a doctor if you feel unwell.
Get medical advice and attention if you feel unwell.

If skin irritation occurs: Get medical advice and attention.
If eye irritation persists: Get medical advice and attention.

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| | Take off contaminated clothing and wash it before reuse. |
| | 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. |
| Disposal | Store locked up. 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
or Mixture

Mixture

| Generic Name | Concentration or Its Ranges | Formula | ENCS No./ISHL No. | | CAS RN |
|-----------------|-----------------------------|--|---------------------------------|----------|-----------|
| | | | Chemical Substances Control Act | ISHL No. | |
| Acrylic Resins | 1.6% | (C ₅ H ₈ O ₂) _x | (6)-524 | Existing | 9011-14-7 |
| Dichloromethane | 95.6% | CH ₂ Cl ₂ | (2)-36 | Existing | 75-09-2 |
| Toluene | 2.8% | C ₇ H ₈ | (3)-2,(3)-60 | Existing | 108-88-3 |

Impurities and/or
Stabilizing Additives which
Contribute to the GHS
Classification

No information available

Chemical Substances
Control ActPriority Assessment Chemical
Substances (Act, Art.2, Para.5)Toluene (Government Ordinance
Number: 46)Industrial Safety and
Health ActDangerous 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)Dichloromethane (Government
Ordinance Number: 257) (90%~100%)Act for PRTR and
Promotion of Chemical
ManagementClass 1 Designated Chemical
Substances (Act, Art.2, Para.2,
Enforcement Order, Art.1
Appended Table 1)Toluene (Government Ordinance
Number: 407) (Less than 10%)Dichloromethane (synonym: Methylene
chloride) (JPSN: 186) (96%)

Toluene (JPSN: 300) (2.8%)

Section 4 – FIRST AID MEASURES

Inhalation

Call a doctor if you feel unwell.

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| Skin Contact | <p>IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If exposed or concerned, get medical advice and attention.</p> <p>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.</p> |
| Eye Contact | <p>If skin irritation occurs: Get medical advice and attention. If exposed or concerned, get medical advice and attention.</p> <p>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.</p> |
| Ingestion | <p>Rinse mouth. IF SWALLOWED: Call a doctor if you feel unwell.</p> <p>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.</p> <p>Never give anything by mouth to an unconscious person.</p> |

Section 5 – FIRE FIGHTING MEASURES
Suitable Extinguishing Media

Small fires: Dry chemical, CO2, water spray or regular foam.

Unsuitable Extinguishing Media
Specific Hazards

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

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.

Protection of Fire Fighter

Keep unnecessary people away.
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.

Environmental
Precautions
Methods and Materials for
Containment and Cleaning
up

Large spills :Evacuate area.
Ensure adequate ventilation.
Do not discharge into the drains, surface waters or
ground water directly.
small spill : absorb with material such as non-
combustible material wash 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
Handling

Fire Prohibited

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/eye
protection/face protection.
Avoid contact during pregnancy/while nursing.
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.

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| | Prevents Handling of Refer to "10. Stability and reactivity". |
| | Incompatible Substances or Mixtures |
| | Specific Hygiene Measures Wash hands thoroughly after handling. |
| Storage | Conditions for Safe Storage Fire Prohibited |
| | Store locked up. |
| | Store in a well-ventilated place keeping container tightly closed. |
| | The storage facility should be designed with fire-proof construction and beams should use a non-combustible 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 ii No information available

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

| | Japan Administration Level | Permission concentration (Exposure Limits, Biological Exposure Indices) | |
|-----------------|----------------------------|---|------------|
| | | Japan Society for Occupational Health | ACGIH |
| Acrylic Resins | Not listed | Not listed | Not listed |
| Dichloromethane | 50ppm | 50ppm(170mg/m3) 【Ceiling】 100ppm(340mg/m3)(Skin) | Listed(*) |
| Toluene | 20ppm | 50ppm(188mg/m3)(Skin) | 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 prevent from static electricity.

Personal Protective Equip Respiratory Protection

If necessary, wear respiratory protection.

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|--------------------------|--------------------------------------|
| Hand Protection | Wear protective gloves. |
| Eye/Face Protection | Wear eye protection/face protection. |
| Skin and Body Protection | Wear protective clothing. |

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

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|---|-------|--|
| Physical State | | Liquid |
| Appearance | | Viscous liquid |
| Colour | | No data available |
| Odour | | Specific odour to product |
| Melting Point/Freezing Point | | -95°C (Dichloromethane) |
| Boiling Point or Initial Boiling Point and Boiling Ranges | | 39.8°C (Dichloromethane) |
| Combustible | | Combustible |
| Lower and Upper Explosion Limit / Flammability Limit | Lower | No data available |
| | Upper | No data available |
| Flash Point | | 7°C (SETA closed cup) |
| Auto-Ignition Temperature | | No data available |
| Decomposition Temperature | | No data available |
| pH | | No data available |
| Kinematic Viscosity | | No data available |
| Solubility | | 13g/L (25°C) (Dichloromethane) |
| Partition coefficient: n-octanol/water (log value) | | No data available |
| Vapour Pressure | | 348.9 mmHg (47.4kP) (20°C) (Dichloromethane) |
| Density and/or Relative Density | | 1.29 |
| Relative Gas Density | | No data available |
| Particle Characteristics | | No data available |

Section 10 – STABILITY AND REACTIVITY

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|-----------------------------------|--|
| 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. |
| 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

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|----------------|------|---|
| Acute toxicity | Oral | Not classified:Dichloromethane(toxicity value =2120mg/kg source: NITE), Toluene(toxicity value =5000mg/kg source: NITE) |
|----------------|------|---|

| | |
|---|---|
| | <p>No Data:Acrylic Resins Contains substance of unknown toxicity. Changed from Not classified to Classification not possible.</p> |
| Dermal | <p>Not classified:Toluene(toxicity value =12000mg/kg source: NITE) Classification not possible:Dichloromethane(source: NITE) No Data:Acrylic Resins Contains substance of unknown toxicity. Changed from Not classified to Classification not possible.</p> |
| Inhalation | <p>(Acute toxicity (Inhalation : Gases)) Does not fall under gas based on GHS definitions.</p> <p>(Acute toxicity (Inhalation : Vapours)) Category 4:Dichloromethane(toxicity value =18371ppm source: NITE), Toluene(toxicity value =3319ppm source: NITE) No Data:Acrylic Resins Classification result = Category 4. (Acute toxicity (Inhalation : dust/mist)) Unable to classify due to insufficient data. Category 2:Dichloromethane(source: NITE), Toluene(source: NITE) No Data:Acrylic Resins The sum of the components in Category 2 \geq Concentration limit(10%).Classification result = Category 2.</p> |
| Skin corrosion/irritation | <p>Category 2A:Dichloromethane(source: NITE) No Data:Acrylic Resins The sum of the components in Category 2 \geq Concentration limit(10%).Classification result = Category 2.</p> |
| Serious eye damage/eye irritation | <p>Category 2B:Toluene(source: NITE) No Data:Acrylic Resins The sum of the components in Category 2 \geq Concentration limit(10%).Classification result = Category 2.</p> |
| Respiratory sensitization Skin sensitization | <p>Unable to classify due to insufficient data. Not classified:Toluene(source: NITE) Classification not possible:Dichloromethane(source: NITE) No Data:Acrylic Resins Contains substance of unknown toxicity. Changed from Not classified to Classification not possible.</p> |
| Germ cell mutagenicity | <p>Not classified:Toluene(source: NITE) Classification not possible:Dichloromethane(source: NITE) No Data:Acrylic Resins Contains substance of unknown toxicity. Changed from Not classified to Classification not possible.</p> |
| Carcinogenicity | <p>Category 1A:Dichloromethane(source: NITE) Classification not possible:Toluene(source: NITE) No Data:Acrylic Resins</p> |

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| Reproductive toxicity | <p>Dichloromethane $\geq 0.1\%$. Classification result = Category 1A. (Reproductive toxicity) Category 1A:Toluene(source: NITE) Category 2:Dichloromethane(source: NITE) No Data:Acrylic Resins Toluene $\geq 0.3\%$ Classification result = Category 1A. (Reproductive toxicity, effects on or via lactation)</p> |
| Specific target organ toxicity – Single exposure | <p>Additional category: Effects on or via lactation:Toluene(source: NITE) No Data:Acrylic Resins Toluene $\geq 0.3\%$. Classification result = Additional category: Effects on or via lactation. Category 1:Dichloromethane(organ=respiratory apparatus, central nervous system source: NITE), Toluene(organ=central nervous system source: NITE) Category 3:Dichloromethane(organ=narcotic effect source: NITE), Toluene(organ=narcotic effect, Respiratory tract irritation source: NITE)</p> |
| Specific target organ toxicity – Repeated exposure | <p>No Data:Acrylic Resins Dichloromethane $\geq 10\%$. Classification result = Category 1(respiratory apparatus, central nervous system). Toluene $\geq 1\%$. Classification result = Category 2(central nervous system). The sum of the components in Category 3(narcotic effects) \geq Concentration limit(20%).Classification result = Category 3(narcotic effects). Category 2:Toluene (central nervous system) was combined into the higher category Category 1:Dichloromethane (central nervous system).</p> |
| Specific target organ toxicity – Repeated exposure | <p>Category 1:Dichloromethane(organ=liver, central nervous system, reproductive organs (male) source: NITE), Toluene(organ=kidney, central nervous system source: NITE) No Data:Acrylic Resins Dichloromethane $\geq 10\%$. Classification result = Category 1(liver, central nervous system, reproductive organs (male)). Toluene $\geq 1\%$. Classification result = Category 2(kidney, central nervous system). Category 2:Toluene (central nervous system) was combined into the higher category Category 1:Dichloromethane (central nervous system).</p> |
| Aspiration hazard | Unable to classify due to insufficient data. |

Section 12 – ECOLOGICAL INFORMATION

Ecotoxicity

Hazardous to aquatic environment short-term (acute)

Category 2:Toluene(source: NITE)

Category 3:Dichloromethane(source: NITE)

No Data:Acrylic Resins

(M factor x 100 x Category 1) + (10 x Category 2) + Category 3 >= Concentration limit(25%).

Classification result = Category 3.

Category 3:Dichloromethane(source: NITE), Toluene(source: NITE)

Hazardous to aquatic environment long-term (chronic)

No Data:Acrylic Resins

(M factor x 100 x Category 1) + (10 x Category 2) + Category 3 >= Concentration limit(25%).

Classification result = Category 3.

Persistence and degradability

No information available

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 Information by Sea

Complied with IMO.

UN No.

1133

Proper Shipping Name.

ADHESIVES

Class

3

Packing Group

II

Marine Pollutant

Not applicable

| | | |
|---|--|--|
| | Transport in bulk according to MARPOL 73/78,Annex II ,and the IBC code | Not applicable |
| Regulations in Japan | Regulatory Information by Air | Complied with ICAO/IATA. |
| | UN No. | 1133 |
| | Proper Shipping Name. | ADHESIVES |
| | Class | 3 |
| | Packing Group | II |
| | Regulatory Information by Road or Rail | Complies with the Fire Service Act. |
| | Regulatory Information by Sea | Complies with the Marine Transportation Safety Act |
| | UN No. | 1133 |
| | Proper Shipping Name. | ADHESIVES |
| | Class | 3 |
| Packing Group | II | |
| Marine Pollutant | Not Applicable | |
| Transport in bulk according to MARPOL 73/78,Annex II ,and the IBC code. | Not Applicable | |
| Specific Safety Measures | Regulatory Information by Air | Complies with the Civil Aeronautics Act |
| | UN No. | 1133 |
| | Proper Shipping Name. | ADHESIVES |
| | Class | 3 |
| | Packing Group | II |
| Emergency Response Guide Number | | 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

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|--|----------------|
| Three laws requiring offer of SDS | |
| Industrial Safety and Health Act | Applicable |
| Poisonous and Deleterious Substances Control Act | Not Applicable |

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| <p>Act for PRTR and Promotion of Chemical Management</p> <p>Main applicable domestic laws and regulations</p> <p>Chemical Substances Control Act</p> <p>Industrial Safety and Health Act</p> | <p>Applicable</p> <p>Priority Assessment Chemical Substances (Act, Art.2, Para.5)(Toluene)</p> <p>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)(Dichloromethane)</p> <p>Mutagenic Existing Chemicals (Act, Art.57-5, Official Notice by Director of Labor Standards Bureau)(Methylene chloride)</p> <p>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)(Dichloromethane,Toluene)</p> <p>Dangerous Substances, Flammable Substances (Enforcement Order, Art., Appended Table 1, Item 4)</p> <p>Published Substances of the Guidelines for Preventing the Impairment of Workers' Health (Act, Art.28, Para.3, MHLW Noticed Guideline)(Dichloromethane)</p> <p>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)(Dichloromethane,Toluene)</p> <p>Specified Chemical Substances, Substances under Special Supervision (Ordinance on Prevention of Hazards Due to Specified Chemical Substances, Art.38-3)(Dichloromethane)</p> |
| <p>Water Pollution Control Act</p> | <p>Hazardous Substances (Act, Art.2, Enforcement Order Art.2, Ministerial Ordinance to Provide for Effluent Standards, Art.1)(Dichloromethane)</p> |
| <p>Fire Service Act</p> | <p>Designated Substances (Act, Art.2, Para.4, Enforcement Order, Art.3-3)(Toluene)</p> <p>Group 4, Flammable Liquids, Class 1 Petroleums, Water-insoluble liquids (Act, Art.2, Para.7, Appended Table 1, Group 4)</p> |
| <p>Air Pollution Control Act</p> | <p>Hazardous Air Pollutants, Priority Substances (Central Environment Council Report No. 9)(Dichloromethane,Toluene)</p> |
| <p>Ship Safety Act</p> | <p>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)</p> |

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)(Dichloromethane(synonym: Methylene chloride),Toluene)

Labor Standard Act
Chemical Substances Causing Illness (Act, Art.75, Para.2, Enforcement Regulations, Appended Table No.1-2, Item 4-1)(Dichloromethane,Toluene)

Carcinogenic Chemical Substances (Act, Art.75, Para.2, Enforcement Regulations, Art.35 Appended Table 1-2, Item 7)(Dichloromethane)

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

Section 16 – OTHER INFORMATION

Technical Contact Literature

Shinko Plastics Co., Ltd.
NITE GHS Classification published data
EU CLP Regulation, AnnexVI
ECHA Registered substances Database

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.