

MATERIAL SAFETY DATA SHEET

DEAHEUNG CHEMICAL CO., LTD. www.dhcbond.com



Product Name	DM-700(A)			
1. Product and Company Identification				
A. Product Name	DM-700(A)			
B. Recommended use of the chemical and	B. Recommended use of the chemical and restrictions on use			
- Recommended use of the chemical	bonding for the PVC sheet and film to wood and plastic, hard board, wood based materials, resin felt, etc.			
- Restrictions on use of the product	Hazardous material			
C. Manufacturer/Supplier/Distributor Inform	ation			
- Name	DAEHEUNG CHEMICAL CO., LTD.			
- Address	68, Sandan-ro 64beon-gil, Pyeongtaek-si, Gyeonggi-do, Korea			
- Emergency phone number	82-31-668-1424			
2. Hazards identification				
A. Hazard Risk Classification	Flammable Liquid : Category 2			
	Skin corrosion / Irritation : Category 2			
	Serious eye damage / Lrritation : Category 2			
	Reproductive toxicity : Category 1A			
	Target Organ Toxicity (Single Exposure) : Category 1			
	Target Organ Toxicity (Repeated Exposure) : Category 1			
	Target Organ Toxicity (Repeated Exposure) : Category 1			
B. Label elements including precautionary statements				
– Symbol				
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- Signal Word	Danger
- Hazard Risk Statement	H225 Highly flammable liquid and vapour
	H304 May be fatal if swallowed and enters airways
	H315 Causes skin irritation
	H319 Causes serious eye irritation
	H335 May cause respiratory irritation
	H336 May cause drowsiness or dizziness
	H360 May damage fertility or the unborn child
- Precautionary Statement	
Prevention	P201 Obtain special instructions before use
	P202 Do not handle until all safety precautions have been read and understood
	P210 Keep away from heat/sparks/open flames/hot surfaces - No smoking
	P233 Keep container tightly closed
	P240 Ground/bond container and receiving equipment
	P241 Use explosion-proof electrical/ventilating/light//equipment
	P242 Use only non-sparking tool
	P243 Take precautionary measures against static discharge

Prevention	P260 Do not breathe dust/fume/gas/mist/vapours/spray
	P264 Wash … thoroughly after handling
	P270 Do not eat, drink or smoke when using this product
	P271 Use only outdoors or in a well-ventilated area
	P280 Wear protective gloves/protective clothing/eye protection/face protection
	P281 Use personal protective equipment as required
Response	P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
	P302+352 IF ON SKIN : Wash with soap and water
	P303+P361+P353 IF ON SKIN (or hair) : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
	P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
	P305+351+338 IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing
	P307+311: IF exposed: Call a POISON CENTER or doctor/physician
	P308+P313 IF exposed or concerned : Get medical advice/attention
	P312 Call a POISON CENTER or doctor/physician if you feel unwell
	P314 Get Medical advice/attention if you feel unwell
	P331 Do NOT induce vomiting
	P332+313 If skin irritation occurs: Get medical advice/attention
	P337+313 If eye irritation persists get medical advice/attention
	P362 Take off contaminated clothing and wash before reuse
Storage	P403+233: Store in a well ventilated place. Keep container tightly closed
	P403+235: Store in a well ventilated place. Keep cool
	P405: Store locked up
Disposal	P501 Dispose of contents/container to …
ther Hazard-Risk which are n	ot included in the classification criteria (e.g. dust explosion bazard)

C. Other Hazard Risk which are not included in the classification criteria (e.g. dust explosion hazard)

	TOLUENE	ACETONE	POLYURETHANE	
Health	2	1	N/A	
Fire	3	3	N/A	
Reactivity	0	0	N/A	

3. Composition/Information on ingredients

Chemical Name	Other name	CAS number	Content(%)
TOLUENE	Methyl benzene	108-88-3	10~20
ACETONE	2-PROPANONE	67-64-1	70~80
POLYURETHANE	-	9009-54-5	10~15
4. First aid measures			
A. Eye contact	IF IN EYES: Wash carefully with water for s lenses, if possible. Easy to do.	several minutes. Remo	ove contact
	If eye irritation persists, Consult a physicia	n if irritation persists.	
B. Skin contact	Skin (or hair): Take off immediately all cor Keep. Rinse skin with water / shower.	taminated clothing or	remove the
	If skin irritation occurs, obtain medical adv	vice Keep.	
	Take off immediately all contaminated close	thing or remove the Ke	eep.
	Wash skin with soap and water.		
C. Inhalation	Do not induce vomiting.		
	Excessive dust, or fumes when exposed to other symptoms and Seek medical attention		y coughing or

D. Ingestion

Seek immediate medical advice.

Do not induce vomiting.

E. Indication of immediate medical attention Medical personnel are aware of the material and to take precautions to protect. and notes for physician

5. Fire-Fighting measures			
A. Suitable (and unsuitable) extinguishing	Water spray, foam, dry powder		
media	When to do Fire-Fighting, use dry sand or earth.		
B. hazards arising from the chemical (e.g.	Highly flammable liquid and vapor.		
products)	Vapors may form explosive mixtures with air.		
	The steam explosion hazard at Indoor, outdoor, drain.		
C. Special protective equipment and precautions for fire-fighters	In case of fire: Wear self-contained breathing apparatus.		
precations for me lighters	Cool tanks/drums with water spray/remove them into safety.		
6. Accidental release measures			
A. Personal precautions, protective equipment and emergency procedures	Use water spray/stream to protect personnel and to cool endangered containers.		
	Remove product from area of fire.		
	Wear suitable protective clothing, gloves and eye/face protection.		
	Stop leak if safe to do so. Remove all sources of ignition.		
	In case of fire: Wear selfcontained breathing apparatus.		
	Evacuate unnecessary personnel. Remove all sources of ignition. Stop leak if safe to do so. Eliminate leaks immediately.		
B. Environmental precautions and protective	Avoid release to the environment		
procedures	Waterways, sewers, basements, and Prevent entry into confined spaces.		
C. Methods and materials for containment and cleaning up	Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).		
	Collect in closed containers for disposal.		
	Dispose of this material and its container to hazardous or special waste collection point.		
7. Handling and storage			
A. Precautions for safe handling	Do not handle until all safety precautions Read and understand all safety precautions.		
	Wear suitable chemical resistant gloves, safety goggles, dust mask and other protective clothing.		
	Use in the well-ventilated areas. Prevent build-up electrostatic charge(by grounding).		
	Shower and eye bath. Keep away from acidic material.		
	Be careful to high temperatures.		
B. Conditions for safe storage (including any incompatibilities)	Store in its original container in a cool environment, keep away from heat, spark, and open flame. Ground containers during storage and transfer operations to avoid static spark.		
	ldeal storage temp. range fore ease of handling is 10 $\sim 27{}^\circ\!\!{\rm C}$		
	Keep away from heat/sparks/open flames/hot surfaces No smoking.		

8. Exposure controls & personal protection

A. Control parameters (e.g. occupational exposure limit values, biological limit values)

- Occupational exposure limit values

TOLUENE

TWA - 50ppm 188mg/m³ STEL - 150ppm 560mg/m³

ACETONE - ACGIH limit values	TWA - 500ppm 1188mg/m ³ STEL - 750ppm 1782mg/m ³
TOLUENE	TWA 20 ppm 75 mg/m ²
ACETONE	TWA - 500ppm
	STEL 750 ppm
- Biological limit values	
TOLUENE	0.02mg/L, 0.03mg/L
B. Appropriate engineering controls	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide adequate ventilation.
C. Personal protective equipment	
- Respiratory protection	The filter class must be suitable for the maximum contaminant concentration(gas/vapour/aerosol/particulates) that may arise when handling the product.
	If the concentration is exceeded, closed-circuit breathing apparatus must be used!.
	In case of fire: Wear self contained breathing apparatus.
- Eye protection	Wear eye protection/face protection.
- Hands protection	Wear proper chemical resistant gloves.
- Body protection	Wear proper Protective clothing.

9. Physical and chemical properties

A. Appearance	
Physical state	Viscous liquid
Color	Clear
B. Odour	Solvent
C. Odour threshold	No data available
D. pH	Not Applicable
E. Melting point/freezing point	Not Applicable
F. Initial boiling point and boiling range	56 °C
G. Flashing point	−20 °C
H. Evaporation rate	No data available
I. Flammability(solid, gas)	No data available
J. Upper/lower flammability or explosive limits	2.5% / 13%
K. Vapor pressure	No data available
L. Solubility	Soluble in water
M. Vapor density	No data available
N. Relative density	0.92
O Partition coefficient:n-octanol/water	Not Applicable
P. Auto-ignition temperature	465℃
Q. Decomposition temperature	No data available
R. Viscosity	150~350cps (at 20°C)
S. Formula mass	No data available

10. Stability and reactivity	
A.Chemical stability and possibility of hazardous reactions	Stable under normal conditions.
B. Conditions to avoid	Keep away from heat/sparks/open flames/hot surfaces - No smoking
C. Incompatible materials	Flammable material
D. Hazardous decomposition products	CO, CO ₂ , nitrogen compounds, hazardous gas etc.

11. Toxicological information	
A. Information on the likely routes of exposure	No data available
 B. Health hazards information Acute toxic 	
Oral	
TOLUENE	LD50 2600 mg/kg Rat
ACETONE	LD50 5280 mg/kg Rat (EHC(1990), SIDS(1997))
Inhalation	
TOLUENE	LC50 12.5 mg/ℓ 4 hr Rat
ACETONE	LC50 32000 ppm Rat
Dermal	
TOLUENE	LD50 120000 mg/kg Rat
ACETONE	LD50 12870 mg/kg Rabbit (EHC(1990), PATTY(1994), SIDS(1997))
- Skin corrosive/irritant	
TOLUENE	Skin – rabbit – Mild skin irritation
ACETONE	Skin – rabbit – No skin irritation
- Serious eye damage/eye irritation	
TOLUENE	Eye irritation
ACETONE	Eye irritation
- Respiratory sensitization	No data available
- Skin sensitization	
TOLUENE	Negative (Guinea Pigs)
ACETONE	Negative (Guinea Pigs, Mouse)
- Carcinogenicity	
IARC	Group 3
ACGIH	A4

12. Ecological information

A. Aquatic and terrestrial ecotoxicity	
- Fish	
TOLUENE	LC50 24 mg/ℓ 96 hr Oncorhynchus mykiss
ACETONE	LC50 > 100 mg/ℓ 96 hr
- Shellfish	
TOLUENE	EC50 11.5 mg/l 48 hr Daphnia magna
ACETONE	No data available
– Bird	No data available
B. Persistence and degradability	
- Persistence	
TOLUENE	log Kow 2.73
C. Bioaccumulative potential	
- Concentrated Castle	No data available
- Biodegradable	
TOLUENE	86 (%) 20 day
D. Mobility in soil	No data available
E. Other adverse effects	No data available

13. Disposal considerations	
A. Disposal method	Destroy the product by incineration
B. Disposal precaution	Destroy the product by incineration
14. Transport information	
A. UN number	1133
B. UN proper shipping name	ADHESIVES containing flammable liquid
C. Transport hazard class:	3
D. Packing group (if applicable)	II
E. Marin pollution (yes/no)	Yes
F. Special precaution which a user to be aw within or outside their premises:	are of or needs to comply with in connection with transport or conveyance either
	F-E, S-D
15. Regulatory information	
A. Industrial Safety and Health Act	Article 39 (Management, etc. of Harmful Agents)
	Article 41 (Preparation, Keeping, etc. of Material Safety Data Sheet)
B. Toxic Chemical Control Act	Not Applicable.
C. Dangerous Material Safety Control Act	
TOLUENE	The 4th type, the 1st petroleum type 200 ℓ
ACETONE	The 4th type, the 1st petroleum type 400ℓ
D. Wastes Management Act	Designated Wastes
E. Other requirements in domestic and othe	r countries
- Domestic	Not Applicable.
- Other countries	
CERCLA	
TOLUENE	453.599 kg 1000 lb
ACETONE	2267.995 kg 5000 lb
EU regulations	
TOLUENE	F; R11Repr.Cat.3; R63Xn; R48/20-65Xi; R38R67
ACETONE	F; R11Xi; R36R66R67
EU regulations	
TOLUENE	R11, R38, R48/20, R63, R65, R67
ACETONE	R11, R36, R66, R67
EU regulations	
TOLUENE	S2, S36/37, S46, S62
ACETONE	S2, S9, S16, S26, S46
16. Other information	
A. Information source and references	

A. Information source and references	
Source of data : Korea Occupational Safety and Health Agency (KOSHA)>
B. Issuing date September 5, 2014	
C. Revision number and date 0	
D. others	

 \odot Source of data : Korea Occupational Safety and Health Agency (KOSHA)>



MATERIAL SAFETY DATA SHEET

DEAHEUNG CHEMICAL CO., LTD. www.dhcbond.com



Product Name	DM-700(B)
1. Product and Company Identification	
A. Product Name	DM-700(B)
B. Recommended use of the chemical and	
 Recommended use of the chemical and Recommended use of the chemical 	
- Recommended use of the chemical	bonding hardner for the PVC sheet and film to wood and plastic, hard board, wood based materials, resin felt, etc.
 Restrictions on use of the product 	Hazardous material
C. Manufacturer/Supplier/Distributor Informa	ation
- Name	DAEHEUNG CHEMICAL CO., LTD.
- Address	68, Sandan-ro 64beon-gil, Pyeongtaek-si, Gyeonggi-do, Korea
- Emergency phone number	82-31-668-1424
2. Hazards identification	
A. Hazard Risk Classification	Acute toxicity(oral) : Category 4
	Acute toxicity(inhalation:steam) : Category 1
	Acute toxicity(inhalation:mist) : Category 2
	Skin corrosion / Irritation : Category 2
	Serious eye damage / Lrritation : Category 2
	Reproductive toxicity : Category 1
	Skin Sensitization : Category 1
	Carcinogenic : Category 2
	Target Organ Toxicity (Single Exposure) : Category 1
	Target Organ Toxicity (Repeated Exposure) : Category 1
	Chronic hazards to the aquatic environment : Category 2
B. Label elements including precautionary	
- Symbol	
Symbol	
•	
- Signal Word	Danger
– Hazard Risk Statement	H302 Harmful if swallowed
	H315 Causes skin irritation
	H317 May cause an allergic skin reaction
	H319 Causes serious eye irritation
	H330 Fatal if inhaled
	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
	H336 May cause drowsiness or dizziness

H351 Suspected of causing cancer

H411 Toxic to aquatic life with long lasting effects

- Precautionary Statement

Prevention

P201 Obtain special instructions before use P202 Do not handle until all safety precautions have been read and understood

Prevention	P260 Do not breathe dust/fume/gas/mist/vapours/spray
	P261 Avoid breathing dust/fume/gas/mist/vapours/spray
	P264 Wash … thoroughly after handling
	P270 Do not eat, drink or smoke when using this product
	P271 Use only outdoors or in a well-ventilated area
	P273 Avoid release to the environment
	P280 Wear protective gloves/protective clothing/eye protection/face protection
	P281 Use personal protective equipment as required
	P284 Wear respiratory protection
	P285 In case of inadequate ventilation wear respiratory protection
Response	P301+312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
	P302+352 IF ON SKIN : Wash with soap and water
	P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
	• P304+341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
	P305+351+338 IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing
	P307+311: IF exposed: Call a POISON CENTER or doctor/physician
	P308+P313 IF exposed or concerned : Get medical advice/attention
	• P310: Immediately call a POISON CENTER or doctor/physician
	P312 Call a POISON CENTER or doctor/physician if you feel unwell
	P314 Get Medical advice/attention if you feel unwell
	P330 Rinse mouth
	P332+313 If skin irritation occurs: Get medical advice/attention
	P333+313 If skin irritation or a rash occurs: Get medical advice/attention
	P337+313 If eye irritation persists get medical advice/attention
	P342+311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician
	P362 Take off contaminated clothing and wash before reuse
	P363 Wash contaminated clothing before reuse
	P391 Collect spillage
Storage	P403+233: Store in a well ventilated place. Keep container tightly closed
	P405: Store locked up
Disposal	P501 Dispose of contents/container to …

C. Other Hazard Risk which are not included in the classification criteria (e.g. dust explosion hazard)

	METHYLENE DIPHENYLDIISOCYANATE	ISOCYANIC ACID, POLYMETHYLENEPOLYLH NYLENE ESTER	DICHLOROMETHA IE NE
Health	3	N/A	2
Fire	1	N/A	1
Reactivity	1	N/A	0

3. Composition/Information on ingredients

Chemical Name	Other name	CAS number	Content(%)
DICHLOROMETHANE	Methylene Chloride	75-09-2	85~75
METHYLENE DIPHENYLDIISOCYANATE	2-PROPANONE	101-68-8	
ISOCYANIC ACID, POLYMETHYLENEPOLYLHENYLENE ESTER	Bis(P-isocyantophenyl)methane	9016-87-9	15~25

4. First aid measures	
A. Eye contact	IF IN EYES: Wash carefully with water for several minutes. Remove contact lenses, if possible. Easy to do.
	If eye irritation persists, Consult a physician if irritation persists.
B. Skin contact	Skin (or hair): Take off immediately all contaminated clothing or remove the Keep. Rinse skin with water / shower.
	If skin irritation occurs, obtain medical advice Keep.
	Take off immediately all contaminated clothing or remove the Keep.
	Wash skin with soap and water.
C. Inhalation	Do not induce vomiting.
	Excessive dust, or fumes when exposed to clean air removed by coughing or other symptoms and Seek medical attention if you have.
D. Ingestion	Seek immediate medical advice.
	Do not induce vomiting.
E. Indication of immediate medical attention and notes for physician	Medical personnel are aware of the material and to take precautions to protect.

5. Fire-Fighting measures	
A. Suitable (and unsuitable) extinguishing media	Water spray, foam, dry powder
	When to do Fire-Fighting, use dry sand or earth.
B. hazards arising from the chemical (e.g.	Highly flammable liquid and vapor.
nature of any hazardous combustion products)	Vapors may form explosive mixtures with air.
	The steam explosion hazard at Indoor, outdoor, drain.
C. Special protective equipment and	In case of fire: Wear self-contained breathing apparatus.
precautions for fire-fighters	Cool tanks/drums with water spray/remove them into safety.
6. Accidental release measures	
A. Personal precautions, protective equipment and emergency procedures	Use water spray/stream to protect personnel and to cool endangered containers.
	Remove product from area of fire.
	Wear suitable protective clothing, gloves and eye/face protection.
	Stop leak if safe to do so. Remove all sources of ignition.
	In case of fire: Wear selfcontained breathing apparatus.
	Evacuate unnecessary personnel. Remove all sources of ignition. Stop leak if safe to do so. Eliminate leaks immediately.
B. Environmental precautions and protective	Avoid release to the environment
procedures	Waterways, sewers, basements, and Prevent entry into confined spaces.
C. Methods and materials for containment and cleaning up	Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
	Collect in closed containers for disposal.
	Dispose of this material and its container to hazardous or special waste collection point.
7. Handling and storage	
A. Precautions for safe handling	Do not handle until all safety precautions Read and understand all safety precautions.
	Wear suitable chemical resistant gloves, safety goggles, dust mask and other protective clothing.
	Use in the well-ventilated areas. Prevent build-up electrostatic charge(by grounding).

Shower and eye bath. Keep away from acidic material.

Be careful to high temperatures.

B. Conditions for safe storage (including any Store in its original container in a cool environment, keep away from heat, spark, incompatibilities) and open flame. Ground containers during storage and transfer operations to avoid static spark.

Ideal storage temp. range fore ease of handling is 10 \sim 27 $^\circ\!\!{\rm C}$

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

8. Exposure controls & personal protection

A. Control parameters (e.g. occupational exposure limit values, biological limit values)

- Occupational exposure limit values	
DICHLOROMETHANE	TWA - 50ppm 175mg/m ³
METHYLENE DIPHENYLDIISOCYANATE	TWA - 0.005ppm 0.055mg/m ³
- ACGIH limit values	
METHYLENE DIPHENYLDIISOCYANATE	TWA 0.005 ppm
- Biological limit values	No data available
B. Appropriate engineering controls	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide adequate ventilation.
C. Personal protective equipment	
- Respiratory protection	The filter class must be suitable for the maximum contaminant concentration(gas/vapour/aerosol/particulates) that may arise when handling the product.
	If the concentration is exceeded, closed-circuit breathing apparatus must be used!
	In case of fire: Wear self contained breathing apparatus.
- Eye protection	Wear eye protection/face protection.
- Hands protection	Wear proper chemical resistant gloves.
- Body protection	Wear proper Protective clothing.

9. Physical and chemical properties

A. Appearance	
Physical state	Viscous liquid
Color	Yellowish clear
B. Odour	Solvent
C. Odour threshold	No data available
D. pH	Not Applicable
E. Melting point/freezing point	– 95 °C
F. Initial boiling point and boiling range	40 °C
G. Flashing point	No data available
H. Evaporation rate	No data available
I. Flammability(solid, gas)	Can explode if exposed to slight heat.
J. Upper/lower flammability or explosive limits	25% / 12%
K. Vapor pressure	400mmHg (at 24°C)
L. Solubility	Unsoluble in water
M. Vapor density	2.9
N. Relative density	1.31
N. Relative density O Partition coefficient:n-octanol/water	1.31 Not Applicable
O Partition coefficient:n-octanol/water	Not Applicable
O Partition coefficient:n-octanol/water P. Auto-ignition temperature	Not Applicable 556 °C
O Partition coefficient:n-octanol/water P. Auto-ignition temperature Q. Decomposition temperature	Not Applicable 556 °C No data available

10. Stability and reactivity	
A.Chemical stability and possibility of	Stable under normal conditions.
hazardous reactions	
B. Conditions to avoid	Keep away from heat/sparks/open flames/hot surfaces - No smoking
C. Incompatible materials	Flammable material
D. Hazardous decomposition products	CO, CO ₂ , nitrogen compounds, hazardous gas etc.
11. Toxicological information	
A. Information on the likely routes of exposure	No data available
B. Health hazards information - Acute toxic	
Oral	
DICHLOROMETHANE	LD50 1600 mg/kg Rat
METHYLENE DIPHENYLDIISOCYANATE	LD50 31600 mg/kg Rat
ISOCYANIC ACID, POLYMETHYLENEPOLYLHENYLENE ESTER	LD50 49000 mg/kg Rat
Inhalation	
DICHLOROMETHANE	LC50 53 mg/l 6 hr
METHYLENE DIPHENYLDIISOCYANATE	LC50 0.369 mg/ℓ 4 hr Rat
ISOCYANIC ACID, POLYMETHYLENEPOLYLHENYLENE ESTER	LC50 0.49 mg/kg 4 hr Rat
Dermal	
ISOCYANIC ACID, POLYMETHYLENEPOLYLHENYLENE ESTER	LD50 > 9500 mg/kg Rabbit
- Skin corrosive/irritant	
DICHLOROMETHANE	Skin - rabbit - Mild skin irritation
METHYLENE DIPHENYLDIISOCYANATE	Skin - rabbit - skin irritation
- Serious eye damage/eye irritation	
DICHLOROMETHANE	Eye irritation
METHYLENE DIPHENYLDIISOCYANATE	Eye irritation
- Carcinogenicity	
IARC	Group 3
ACGIH	A4
NTP	R
12. Ecological information	
A. Aquatic and terrestrial ecotoxicity	
- Fish	
DICHLOROMETHANE	LC50 5.2 mg/ℓ 72 hr
- Shellfish	
	EC50 1682 mg/ℓ 48 h
- Shellfish	EC50 1682 mg/ℓ 48 h No data available
- Shellfish DICHLOROMETHANE	

ISOCYANIC ACID, POLYMETHYLENEPOLYLHENYLENE ESTER	log Kow 10.46
C. Bioaccumulative potential	
- Concentrated Castle	
DICHLOROMETHANE	BCF 40
- Biodegradable	
DICHLOROMETHANE	13 (%)
D. Mobility in soil	No data available
E. Other adverse effects	No data available
13. Disposal considerations	
A. Disposal method	Destroy the product by incineration
B. Disposal precaution	Destroy the product by incineration
14. Transport information	

A. UN number	2810
B. UN proper shipping name	TOXIC LIQUID, ORGANIC, N. O. S.
C. Transport hazard class:	6

D. Special precaution which a user to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises:

F-A, S-A

	15. Regulatory information	
	A. Industrial Safety and Health Act	Article 39 (Management, etc. of Harmful Agents)
		Article 41 (Preparation, Keeping, etc. of Material Safety Data Sheet)
	B. Toxic Chemical Control Act	Not Applicable.
	C. Dangerous Material Safety Control Act	
	METHYLENE DIPHENYLDIISOCYANATE	The 4th type, the 4st petroleum type 6000ℓ
	D. Wastes Management Act	Designated Wastes
	E. Other requirements in domestic and other	countries
	- Domestic	Not Applicable.
	- Other countries	
	CERCLA	
	DICHLOROMETHANE	453.599 kg 1000 lb
	METHYLENE DIPHENYLDIISOCYANATE	2267.995 kg 5000 lb
	EU regulations	
	DICHLOROMETHANE	Carc. Cat. 3; R40
	METHYLENE DIPHENYLDIISOCYANATE	Carc. Cat.; R40 Xn; R20-48/20 Xi; R36/37/38 R42/43
	EU regulations	
	DICHLOROMETHANE	R40
	METHYLENE DIPHENYLDIISOCYANATE	R20, R36/37/38, R40, R42/43, R48/20
	EU regulations	
	DICHLOROMETHANE	S2, S23, S24/25, S36/37
	METHYLENE DIPHENYLDIISOCYANATE	S1/2, S23, S36/37, S45

16. Other information

- A. Information source and references
- Source of data : Korea Occupational Safety and Health Agency (KOSHA)>

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B. Issuing date

September 5, 2014

C. Revision number and date

D. others

 \odot Source of data : Korea Occupational Safety and Health Agency (KOSHA)>