MATERIAL SAFETY DATA SHEET

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

PGM

Product Name	D-1000B

1. Product and Company Identification

A. Product Name: D-1000B

B. Recommended use of the chemical and restrictions on use

- Recommended use of the chemical: For sealing joint in metal, glass, wood, aluminum, concrete and joints between various combinations of surface.
- Restrictions on use of the product: Do not use for purposes other than adhesive.

C. Manufacturer/Supplier/Distributor Information

- 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 liquids : category 2

Acute toxic(Inhalation: vapor) : category 4

Skin Corrosion/Irritation : Category 2

Serous Eyes Damage/Eye Irritation : Category 2

Reproductive toxicity : category 2

Specsific Target Organ Toxicity (Single Exposure) : Category 3(Narcotic effects)

Specsific Target Organ Toxicity (Single Exposure) : Category 3(Respiratory tract irritation)

Specsific Target Organ Toxicity (Repeated Exposure) : Category 1

Aspiration Harzard : Category 1

B. Label elements including precautionary statements

- Symbol

- Signal Word: Danger
- Hazard·Risk Statement

H225 Highly flammable liquid and vapour Causes severe skin burns and eye damage

H304 May be fatal if swallowed and enters airways Suspected of damaging fertility or the unborn child

H315 Causes skin irritation

H319 Causes serious eye irritation

H332 Harmful if inhaled

H335 May cause respiratory irritation

H336 May cause drowsiness or dizziness

H361 Suspected of damaging fertility or the unborn child

H370 Causes damage to organs

H372 Causes damage to organs through prolonged or repeated exposure

- Precautionary Statement

Prevention

P201 Obtain special instructions before use

P202 Do not handle until all safety precautions have been read and understood

Prevention	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
	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
	P280 Wear protective gloves/protective clothing/eye protection/face protection
Response	P301+P310 IF SWALLOWED : Immediately call a POISON CENTER or doctor/physician
	P302+P352 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+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
	P305+P351+P338 IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
	P308+P311 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+P313 If skin irritation occurs : Get medical advice/attention
	P337+P313 If eye irritation persists get medical advice/attention
	P362+364 Take off contaminated clothing and wash it before reuse.
	P370+P378 In case of fire: Use water, sand for extinction
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 in accordance with relevant laws and regulations

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

	TOLUENE	PARA-TERTIARY-BUTYLPHENOL-FORMALDEHYDE	CALCIUM CARBONATE	NEOPRENE
Health	2	1	2	1
Fire	3	1	0	1
Reactivity	0	0	0	0

3. Composition/Information on ingredients

Chemical Name	Other name	CAS number	Content(%)
TOLUENE	METHYLBENZENE	108-88-3	30~40
PARA-TERTIARY-BUTYLPHENOL-FORMALDEHYDE …	PHENOL, P-tert-BUTYL-,	25085-50-1	1~5
CALCIUM CARBONATE	CARBONIC ACID, CALCIUM SALT	471-34-1	20~30
NEOPRENE	SYNTHETIC RUBBER	9010-98-4	20~30
ADDITIVE	-	-	1~5

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
	Remove/Take off immediately all contaminated clothing.
	Evacuate area.
	In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin.
	Wash with soap and water.
C. Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
	Call a POISON CENTER or doctor/physician if you feel unwell.
	Excessive dust, or fumes when exposed to clean air removed by coughing or other symptoms and Seek medical attention if you have.
D. Ingestion	Do not induce vomiting. If swallowed, rinse mouth with water (only if the person is conscious).
	Seek immediate medical advice.
E. Indication of immediate medical attention and notes for physician	Medical personnel are aware of the material and to take precautions to protect.
	Call a POISON CENTER or doctor/physician.

5. Fire-Fighting measures

A. Suitable (and unsuitable) extinguishing media	Dry chemical, CO_2, sand, earth, water spray or regular foam.
B. Specific hazards arising from the chemical (e.g. nature of any hazardous combustion products)	Extremely flammable liquid and vapour
	Those substances designated with a (P) may polymerize explosively when heated or involved in a fire.
	Vapors may travel to source of ignition and flash back.
	Fire may produce irritating, corrosive and/or toxic gases.
	Substance may be transported in a molten form at a temperature that may be above its flash point.
	Containers may explode when heated.
	May be ignited by friction, heat, sparks or flames.
	LIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
	When heated, vapors may form explosive mixtures with air: indoors, outdoors and sewers explosion hazards.
C. Special protective equipment and precautions for fire-fighters	Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.
	Fight fire with normal precautions from a reasonable distance
	Many liquids are lighter than water.
	Vapors from liquefied gas are initially heavier than air and spread along ground.
	Dike far ahead of liquid spill for later disposal.
	Move containers from fire area if you can do it without risk.
	Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
	Cool containers with flooding quantities of water until well after fire is out.
	Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
	ALWAYS stay away from tanks engulfed in fire.

C. Special protective equipment and precautions for fire-fighters	For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

6. Accidental release measures

A. Personal precautions, protective equipment and emergency procedures	Avoid breathing dust/fume/gas/mist/vapours/spray
	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
	Cover with DRY earth, DRY sand or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.
	Isolate spill or leak area immediately for at least 500 meters (1/3 mile) in all directions.
	Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire.
	All equipment used when handling the product must be grounded.
	Stop leak if you can do it without risk.
	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
	Use clean non-sparking tools to collect material and place it into loosely covered plastic containers for later disposal.
B. Environmental precautions and protective procedures	Prevent entry into waterways, sewers, basements or confined areas.
C. Methods and materials for containment and cleaning up	Dike fire-control water for later disposal; do not scatter the material.
	Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
	Use clean non-sparking tools to collect absorbed material.
	Dike far ahead of liquid spill for later disposal.

7. Handling and storage

A. Precautions for safe handling	Do not handle until all safety precautions have been read and understood.
	Use explosion-proof electrical/ventilating/light/equipment.
	Use only non-sparking tools.
	Avoid breathing dust/fume/gas/mist/vapours/spray.
	Wash thoroughly after handling.
	Do not eat, drink or smoke when using this product.
	Use only outdoors or in a well-ventilated area.
	Keep cool. Protect from sunlight.
	All equipment used when handling the product must be grounded.
	Store in a well ventilated place. Keep container tightly closed
	Heating may cause a fire or explosion
	Keep out of low areas.
	Ventilate closed spaces before entering.
B. Conditions for safe storage (including any incompatibilities)	Keep away from heat/sparks/open flames/hot surfaces - No smoking
	Store in a well ventilated place. Keep container tightly closed
	Store in a well ventilated place. Keep cool
	Do not eat, drink or smoke when using this product

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/m^3 STEL - 150ppm 560mg/m^3
CALCIUM CARBONATE	TWA - 10mg/m^3

NEOPRENE	No data available
PARA-TERTIARY-BUTYLPHENOL -FORMALDEHYDE RESIN	No data available

- ACGIH limit values

TOLUENE	TWA 20 ppm
CALCIUM CARBONATE	No data available
NEOPRENE	No data available
PARA-TERTIARY-BUTYLPHENOL -FORMALDEHYDE RESIN	No data available

- Biological limit values

TOLUENE	0.02mg/L(Blood) 0.03mg/L(Urine) 0.3mg/g(Creatine)
CALCIUM CARBONATE	No data available
NEOPRENE	No data available
PARA-TERTIARY-BUTYLPHENOL -FORMALDEHYDE RESIN	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.
- 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	Paste
Color	Black
B. Odour	Toluene solvent odour
C. Odour threshold	No data available
D. pH	No data available
E. Melting point/freezing point	-95℃ / 자료없음
F. Initial boiling point and boiling range	111 ℃
G. Flashing point	4.5 ℃
H. Evaporation rate	No data available
I. Flammability(solid, gas)	No data available
J. Upper/lower flammability or explosive limits	7.1 % / 1.27 %
K. Vapor pressure	22 mmHg
L. Solubility	Insouble water
M. Vapor density	2 over
N. Relative density	1.2 ± 0.1 (20 ℃)
O Partition coefficient:n-octanol/water	No data available
P. Auto-ignition temperature	480 ℃
Q. Decomposition temperature	No data available
R. Viscosity	90,000~100,000 cps
S. Formula mass	No data available

10. Stability and reactivity

A. Chemical stability and possibility of hazardous reactions	Highly flammable liquid and vapor
	Vigorous polymerization may cause fire and explosion.
	May form explosive mixture at or above flash point
	Container may explode on heating
	Highly flammable: easily ignited by heat, spark, flame
	Leaks are a fire / explosion hazard.
	Vapors may explode indoors, outdoors, and in drains
	Vapors may form explosive mixtures with air
	Vapors may cause dizziness or suffocation without knowledge.
	Inhalation and contact may irritate or burn the skin and eyes.
	May be toxic when inhaled and skin absorbed
	Stable at normal temperature and pressure
	Some can ride but not easily ignite
	Inhalation of the substance may be harmful
	Can decompose at high temperature to produce toxic gas
	Non-flammable, the substance itself is not burned but decomposes on heating and may cause corrosive / toxic fumes
	May cause irritating, corrosive and toxic gases in case of fire
B. Conditions to avoid (e.g. static discharge, shock or vibration, etc)	Keep away from heat/sparks/open flames/hot surfaces - No smoking.
C. Incompatible materials	Irritant, toxic gas
	Flammable materials
D. Hazardous decomposition products	Fire may produce irritating, corrosive and/or toxic gases.

11. Toxicological information

A. Information on the likely routes of exposure

No data available

B. Health hazards information

- Acute toxic

Oral

TOLUENE	LD50 2600 ㎎/㎏ Rat
CALCIUM CARBONATE	LD50 6450 ㎎/㎏ Rat
NEOPRENE	LD50 40000 ㎎/㎏ Rat
PARA-TERTIARY-BUTYLPHENOL -FORMALDEHYDE RESIN	No data available

Dermal

TOLUENE	LD50 120000 ㎎/㎏ Rat
CALCIUM CARBONATE	No data available
NEOPRENE	No data available
PARA-TERTIARY-BUTYLPHENOL -FORMALDEHYDE RESIN	No data available

Inhalation

TOLUENE	LC50 12.5 ㎎/ℓ 4 hr Rat
CALCIUM CARBONATE	No data available
NEOPRENE	No data available
PARA-TERTIARY-BUTYLPHENOL -FORMALDEHYDE RESIN	No data available

- Skin corrosive/irritant

TOLUENE	Skin irritation with rabbit results in moderate irritation.
CALCIUM CARBONATE	Normal irritation of rabbit -Draize tes, irritation to person
NEOPRENE	Causes skin irritation
PARA-TERTIARY-BUTYLPHENOL -FORMALDEHYDE RESIN	No data available

- Serious eye damage/eye irritation

TOLUENE	Eye irritation test with rabbit results in a restorative stimulus for 7 days.
CALCIUM CARBONATE	Extreme irritation of Rabbit-Draize tes, showing slight stimulation to humans
NEOPRENE	Causes eye irritation
PARA-TERTIARY-BUTYLPHENOL -FORMALDEHYDE RESIN	No data available

- Respiratory sensitization

TOLUENE	No data available
CALCIUM CARBONATE	No data available
NEOPRENE	No data available
PARA-TERTIARY-BUTYLPHENOL -FORMALDEHYDE RESIN	No data available

- Skin sensitization

TOLUENE	Negative test results using guinea pig
CALCIUM CARBONATE	No data available
NEOPRENE	No data available
PARA-TERTIARY-BUTYLPHENOL -FORMALDEHYDE RESIN	No data available

- Carcinogenicity

TOLUENE	No data available
CALCIUM CARBONATE	No data available
NEOPRENE	No data available
PARA-TERTIARY-BUTYLPHENOL -FORMALDEHYDE RESIN	No data available

- Germ Cell Mutagenicity

TOLUENE	Tested for dominant lethal test, positive for micronucleus test, test for chromosomal aberration
CALCIUM CARBONATE	In vitro Salmonella typhimurium Ames test Negative
NEOPRENE	No data available
PARA-TERTIARY-BUTYLPHENOL -FORMALDEHYDE RESIN	No data available

- Reproductive toxicity

TOLUENE	No data available
CALCIUM CARBONATE	No data available
NEOPRENE	No data available
PARA-TERTIARY-BUTYLPHENOL -FORMALDEHYDE RESIN	No data available

- Specific target organ toxicity (single exposure)

TOLUENE	In humans, central nervous system effects, tiredness, drowsiness, dizziness, irritation to respiratory system, excitement, vomiting, central nervous system depression, delirium, gait abnormalities. Irritating to eyes, nose and throat. Causes anesthesia in laboratory animals.

CALCIUM CARBONATE	Causes irritation when inhaled.
NEOPRENE	Causes irritation the respiratory tract when inhaled.
PARA-TERTIARY-BUTYLPHENOL -FORMALDEHYDE RESIN	No data available

- Specific target organ toxicity (repeated exposure)

TOLUENE	People have chronic central nervous system disorders such as visual field stenosis or headache accompanied by nystagmus or hearing loss, progression, ataxia, and memory loss. Brain deviations were observed. Renal function disorders such as hematuria and proteinuria appear. Hearing loss, changes in the central auditory evoked potential of the brain, elevation of SGOT, hepatotoxicity accompanied by fatty degeneration or lymphocytic infiltration of hepatocytes.
CALCIUM CARBONATE	Exposure causes blood system abnormalities, gastrointestinal disorders, and Hoechst abnormalities.
NEOPRENE	No data available
PARA-TERTIARY-BUTYLPHENOL -FORMALDEHYDE RESIN	No data available

- Aspiration hazard

TOLUENE	Hydrocarbons and has a kinematic viscosity of 20.5 mm2/s less at 40℃
CALCIUM CARBONATE	No data available
NEOPRENE	No data available
PARA-TERTIARY-BUTYLPHENOL -FORMALDEHYDE RESIN	No data available

12. Ecological information

A. Aquatic and terrestrial ecotoxicity

- Fish

TOLUENE	LC50 24 ㎎/ℓ 96 hr Oncorhynchus mykiss
CALCIUM CARBONATE	LC50 > 56000 ㎎/ℓ 96 hr
NEOPRENE	No data available
PARA-TERTIARY-BUTYLPHENOL -FORMALDEHYDE RESIN	No data available

- Shellfish

TOLUENE	EC50 11.5 ㎎/ℓ 48 hr Daphnia magna
CALCIUM CARBONATE	No data available
NEOPRENE	No data available
PARA-TERTIARY-BUTYLPHENOL -FORMALDEHYDE RESIN	No data available

- Birds

TOLUENE	No data available
CALCIUM CARBONATE	EC50 22000 ㎎/ℓ 96 hr
NEOPRENE	No data available
PARA-TERTIARY-BUTYLPHENOL -FORMALDEHYDE RESIN	No data available

B. Persistence and degradability

- Persistence

TOLUENE	log Kow 2.73
CALCIUM CARBONATE	No data available
NEOPRENE	No data available
PARA-TERTIARY-BUTYLPHENOL -FORMALDEHYDE RESIN	No data available

- Resolvability

TOLUENE	No data available
CALCIUM CARBONATE	No data available
NEOPRENE	No data available
PARA-TERTIARY-BUTYLPHENOL -FORMALDEHYDE RESIN	No data available

C. Bioaccumulative potential

- Concentration

TOLUENE	No data available
CALCIUM CARBONATE	BCF 3.162
NEOPRENE	No data available
PARA-TERTIARY-BUTYLPHENOL -FORMALDEHYDE RESIN	No data available

- Bio resolvability

TOLUENE	86 (%) 20 day
CALCIUM CARBONATE	No data available
NEOPRENE	No data available
PARA-TERTIARY-BUTYLPHENOL -FORMALDEHYDE RESIN	No data available

D. Mobility in soil	No data available
E. Other adverse effects	No data available

13. Disposal considerations

A. Disposal method	Dispose of contents and container in accordance with local regulations.
B. Disposal precaution	Dispose of contents container according to the regulations.

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 aware of or needs to comply with in connection with transport or conveyance either within or outside their premises

- Emergency procedure at fire	F-E
- Emergency procedure at leakages	S-D

15. Regulatory information

A. Industrial Safety and Health Act

Management harmful agents	TOLUENE
Working environment measurement target material (measurement period: 6 months)	TOLUENE
Special medical examination the substance (diagnostic period: 12 months)	TOLUENE
Exposure limits set material	TOLUENE, CALCIUM CARBONATE
No data available	PARA-TERTIARY-BUTYLPHENOL-FORMALDEHYDE RESIN, NEOPRENE

B. Toxic Chemical Control Act

TOLUENE	Accidental substance, Toxic substance

CALCIUM CARBONATE	No data available
NEOPRENE	No data available
PARA-TERTIARY-BUTYLPHENOL -FORMALDEHYDE RESIN	No data available
C. Dangerous Material Safety Control Act	The 4th type, the 1st petroleum type 200ℓ
D. Wastes Management Act	Designated Wastes

E. Other requirements in domestic and other countries

- Domestic regulation

Persistent Organic Pollutant Control Act

TOLUENE	Not applicable
CALCIUM CARBONATE	Not applicable
NEOPRENE	Not applicable
PARA-TERTIARY-BUTYLPHENOL -FORMALDEHYDE RESIN	Not applicable

- Other countries

USA(OSHA)

TOLUENE	Not applicable
CALCIUM CARBONATE	Not applicable
NEOPRENE	Not applicable
PARA-TERTIARY-BUTYLPHENOL -FORMALDEHYDE RESIN	Not applicable

USA(CERCLA)

TOLUENE	453.599 kg 1000 lb
CALCIUM CARBONATE	Not applicable
NEOPRENE	Not applicable
PARA-TERTIARY-BUTYLPHENOL -FORMALDEHYDE RESIN	Not applicable

USA(EPCRA 302)

TOLUENE	Not applicable
CALCIUM CARBONATE	Not applicable
NEOPRENE	Not applicable
PARA-TERTIARY-BUTYLPHENOL -FORMALDEHYDE RESIN	Not applicable

USA(EPCRA 304)

TOLUENE	Not applicable
CALCIUM CARBONATE	Not applicable
NEOPRENE	Not applicable
PARA-TERTIARY-BUTYLPHENOL -FORMALDEHYDE RESIN	Not applicable

USA(EPCRA 313)

TOLUENE	Applicable
CALCIUM CARBONATE	Not applicable
NEOPRENE	Not applicable
PARA-TERTIARY-BUTYLPHENOL -FORMALDEHYDE RESIN	Not applicable

USA (Rotterdam Convention material)

TOLUENE	Not applicable
CALCIUM CARBONATE	Not applicable
NEOPRENE	Not applicable

PARA-TERTIARY-BUTYLPHENOL -FORMALDEHYDE RESIN	Not applicable
USA (Stockholm Convention material)	
TOLUENE	Not applicable
CALCIUM CARBONATE	Not applicable
NEOPRENE	Not applicable
PARA-TERTIARY-BUTYLPHENOL -FORMALDEHYDE RESIN	Not applicable
USA (Substance Montreal Protocol)	
TOLUENE	Not applicable
CALCIUM CARBONATE	Not applicable
NEOPRENE	Not applicable
PARA-TERTIARY-BUTYLPHENOL -FORMALDEHYDE RESIN	Not applicable
EU (Classification)	
TOLUENE	F; R11Repr.Cat.3; R63Xn; R48/20-65Xi; R38R67
CALCIUM CARBONATE	Not applicable
NEOPRENE	Not applicable
PARA-TERTIARY-BUTYLPHENOL -FORMALDEHYDE RESIN	Not applicable
EU (Risk Phrases)	
TOLUENE	R11, R38, R48/20, R63, R65, R67
CALCIUM CARBONATE	Not applicable
NEOPRENE	Not applicable
PARA-TERTIARY-BUTYLPHENOL -FORMALDEHYDE RESIN	Not applicable
EU (Safety Phrases)	
TOLUENE	S2, S36/37, S46, S62
CALCIUM CARBONATE	Not applicable
NEOPRENE	Not applicable
PARA-TERTIARY-BUTYLPHENOL -FORMALDEHYDE RESIN	Not applicable

16. Other information

A. Information source and references

TOLUENE

EU-RAR No.30 (2003)(Oral)

ACGIH (7th; 2001)(Dermal)

EU-RAR No.30 (2003)(Inhalation)

HSDB (2005)(Persistence)

CALCIUM CARBONATE

International Uniform ChemicaL Information Database(IUCLID)(http://ecb.jrc.it/esis)(Oral)

International Uniform ChemicaL Information Database(IUCLID)(http://ecb.jrc.it/esis)(Skin corrosive/irritant)

International Uniform ChemicaL Information Database(IUCLID)(Serious eye damage/eye irritation)

National Library of Medicine/Chemical Carcinogenesis Research Information System(NLM/CCRIS) (http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?CCRIS)(Germ Cell Mutagenicity)

ECOTOX(Fish)

Ecological Structure Activity Relationships(ECOSAR)(bird)

Quantitative Structure Activity Relation(QSAR)(Concentration)

Quantitative Structure Activity Relation(QSAR)(Mobility in soil)

The Chemical Database, The Department of Chemistry at the University of (http://ull.chemistry.uakron.edu/erd)
NEOPRENE

Corporate Solution From Thomson Micromedex(http://csi.micromedex.com)(Oral)

14303chemical product(Jepan)

PARA-TERTIARY-BUTYLPHENOL-FORMALDEHYDE RESIN

B. Issuing date	November 21, 2016
C. Revision number and date	0
D. others	