




SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

- 1) Trade name CT-21
- 2) Relevant identified uses of the substance or mixture and uses advised against
Application of the substance Car Underbody Coating Wax
Restriction of the substance Flammable, Irritation, Hazardous on environment
- 3) Details of the supplier of the safety data sheet
Manufacture/supplier BEX Intercorporation Ltd.
70-3, Yangjae-dong, Seocho-ku, Seoul, KOREA
Emergency telephone/fax During normal opening times : TEL : +82-2-571-4040 FAX : +82-2-575-1336
Department Tech & Production Dept.
E-mail www.bex.co.kr/swlee@buhmwoo.com

SECTION 2. HAZARDS IDENTIFICATION

- 1) CLASSIFICATION Flammable Aerosols: Category 1
Skin corrosive or irritation: Category 2.
Serious eye damage or irritation: Category 2.
Target organ toxicity(Single exposure) : Category 3.
Aspiration Hazard: Category 1
- 2) LABEL
Symbol
- 


- Signal Word Danger
- Hazard Statements
- | | |
|------|--|
| H222 | Extremely flammable aerosol |
| H315 | Causes skin irritation |
| H320 | Causes eye irritation |
| H335 | May cause respiratory irritation |
| H336 | May cause drowsiness or dizziness |
| H305 | May be harmful if swallowed and enters airways |
- Precautionary Statements
- | | |
|------------|--|
| Prevention | P210 Keep away from heat/sparks/open flames/hot surfaces. -No smoking. |
| | P211 Do not spray on an open flame or other ignition source. |
| | P251 Avoid breathing dust/fume/gas/mist/vapours/spray. |
| | P264 Wash ... thoroughly after handling. |
| | P280 Wear protective gloves/protective clothing/eye protection/face protection. |
| | P261 Avoid breathing dust/fume/gas/mist/vapours/spray. |
| | P271 Use only outdoors or in a well-ventilated area. |
| Response | P302+P352+P332 IF ON SKIN: Wash with plenty of soap and water. |
| | P332+P313+P362 If skin irritation occurs: Get medical advice/attention. |
| | Take off contaminated clothing and wash before reuse. |
| | P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. |
| | Remove contact lenses, if present and easy to do. Continue rinsing. |
| | P337+P313 If eye irritation persists: Get medical advice/attention. |
| | P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| | P312 Call a POISON CENTER or doctor/physician if you feel unwell. |
| | P301+P310+P331 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. |
| | Do NOT induce vomiting. |
| Storage | P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C. |
| | P403 Store in a well-ventilated place. |
| | P405 Store locked up. |
| Disposal | P501 Dispose of contents and container in accordance with local regulations. |

3) OTHER HAZARD INFORMATION

Name	NFPA Code	HEALTH HAZARD	FIRE HAZARD	REACTIVITY
MINERAL SPIRIT		1	2	0
ASPHALT		-	-	-
METAL SOAP		0	1	0
FILLER		1	0	0
DIMETHYLETHER		2	4	1

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	Other Name	CAS#	Concentration (%)
MINERAL SPIRIT	–	8052-41-3	<10
ASPHALT	–	90640-80-5	<35
METAL SOAP	–	61790-48-5	<15
FILLER	–	14807-96-6	<10
DIMETHYLETHER	–	115-10-6	36-42

SECTION 4. FIRST AID MEASURES

- 1) EYE CONTACT Flush the eye continuously for more 15 minutes with flooding clean water and consult on ophthalmologist immediately.
- 2) SKIN CONTACT Quickly remove the contaminated clothing. Wash exposed area with soap and water.
- 3) INHALATION Remove exposed person to fresh air and administer 100% humidified supplemental oxygen with assisted ventilation as needed with assisted ventilation as needed
- 4) INGESTION Do not induce vomiting and contact the physician.
- 5) NOTE TO PHYSICIAN Treat Symptomatically

SECTION 5. FIRE FIGHTING MEASURES

- 1) EXTINGUISHING MEDIA : Carbon dioxide, Dry chemical, Regular foam and Halon
Appropriate Extinguishing Media : Regular foam, dry chemical, carbon dioxide and halon
Inappropriate Extinguishing Media :
- 2) UNUSAL FIRE HAZARDS
Pyrolysate Carbon oxide and NOx, SOx, when incomplete combustion
- 3) FIRE FIGHTING INSTRUCTIONS
As beginning the fire, use regular foam, dry chemical, carbon dioxide and halon
For small fires, can be used water spray around the hazard area
For large fires, use water spray and regular foam

SECTION 6. ACCIDENTAL RELEASE MEASURES

- 1) PROTECTIVE MEASURES
If case of leaking : Wear personal protective equipment (eye protection, chemically resistant cloth, face gas mask, face protection)
Stop leak if you can do so without risk.
Avoid contact with spilled material.
Wear protective equipment.
Ventilate sealed area before access.
See Section 8 for advice on the minimum requirements for personal protective equipment.
- 2) ENVIRONMENTAL PRECAUTIONS
Do not allow to enter sewers/ surface or ground water.
Prevent entry into waterways, sewers, basements or confined areas.
- 3) METHOD AND MATERIAL FOR CONTAINMENT AND CLEAN
Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).
Dispose contaminated material as waste according to Section 13.
Ensure adequate ventilation
Prevent entry into waterways, sewers, basements or confined areas.
Use clean non-sparking tools to collect absorbed material.
See Section 7 for information on safe handling.

SECTION 7. HANDLING AND STORAGE

- 1) PRECAUTIONS FOR SAFE HANDLING
Do not handle until all safety precautions have been read and understood.
Ensure good ventilation/exhaustion at the workplace.
Keep out of reach of children.
Wash hand thoroughly after handling.
Use adequate respiratory protection.
Avoid contact with skin or eye.
Avoid breathing mists or vapour.
Do not eat, drink or smoke when using this product.
Open slowly in order to control possible pressure release.
Avoid long term skin contact.
- 2) CONDITIONS FOR SAFE STORAGE
Handling and store accoring to the regulations and terms.
Keep container tightly sealed
Store in a cool, well-ventilated area.
Store in cool, dry conditions in well sealed receptacles.
Handle containers with care.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

1) ENGINEERING CONTROLS

Install a local ventilation system or ventilation system on process.
If dust, fume, mist is generated on process, ventilate the air to reach under the air pollutant standard.
Install washstand and safety shower in facilities where using or store this material.
Confirm the suitability of expose standard.

2) PERSONAL PROTECTION

Respiratory Protection	Confirm the suitability of expose standard. Install a local ventilation system. If the material has risk of explosible concentration, install explosion proof system. Respiratory protection is classified to maximum concentration from maximum concentration. Consider characteristic of caution before use.
Eye Protection	If contact is likely, safety glasses with side shields are recommended. Install fountain type eye cleaning equipment or emergency shower equipment nearby.
Hand Protection	Chemical resistant gloves are recommended. Nitrile
Skin and Body Protection	Chemical/oil resistant clothing is recommended.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

1) Appearance	Black non-transparent Liquid
2) Odour	Hydrocarbon
3) Odour threshold	Not determined
4) pH-value	No Available
5) Melting point	Not determined
6) Initial boiling point/boiling range	Not determined
7) Flash point	-40°C
8) Evaporation rate	Not determined
9) Flammability (Solid, Gas)	Not applicable
10) Ignition or Explosion limits	Not determined
11) Vapour pressure	Not determined
12) Solubility in water	Non soluble
13) Vapour density	Not determined
14) Specific gravity (25°C)	1.035
15) N-Octanol/Water Distribution Coeff.	Not determined
16) Self ignition temperature	240°C
17) Decomposition temperature	Not determined
18) Viscosity(cPs, 25°C, 20rpm)	1500
19) Molecular weight	No data for compound

SECTION 10. STABILITY AND REACTIVITY

1) STABILITY	Material is stable under normal conditions.
2) CONDITIONS TO AVOID	Avoid heat, sparks, open flames and other ignition sources.
3) MATERIALS TO AVOID	Strong oxidisers
4) HAZARDOUS DECOMPOSITION PRODUCTS	Carbon oxide and NOx, SOx, when incomplete combustion

SECTION 11. TOXICOLOGICAL INFORMATION

※ Product toxicity data is not exist. Each ingredient data is filled as substitute.

1) INFORMATION ON THE LIKELY ROUTES OF EXPOSURE

Respiratory	Irritation, Nausea, Vomitting
Ingestion	It is unlikely that gas inhalation occurred.
Skin	Skin contact could induce corrosion, burn, dermatitis.
Eye	Eye contact could induce corrosion, burn, dermatitis.

2) HEALTH HAZARDS

* Assort component 1, 2 as written below because chemical names are too long.

Component 1.	MINERAL SPIRIT
Component 2.	ASPHALT
Component 3.	METAL SOAP
Component 4.	FILLER
Component 5.	DIMETHYLETHER

Acute toxicity	Ingestion	ATEmix	2750 mg/kg
		Comp.1	LD50 > 5000mg/kg(RAT)
		Comp.2	LD50 2000mg/kg(RAT)
		Comp.3	LD50 3000mg/kg(RAT)
		Comp.4	Not determined
		Comp.5	Not determined
	Skin	Comp.1	Not determined
		Comp.2	Not determined
		Comp.3	Not determined
		Comp.4	Not determined
		Comp.5	Not determined
			Inhalation
Comp.2	No Available		
Comp.3	Not determined		
Comp.4	Not determined		
Comp.5	Gas LC 50 309.5mg/ℓ 4hr RAT		
Skin corrosive or irritation	Category 2.		
	Comp.1	Irritation in the rabbit	
	Comp.2	Irritating in a rabbit	
	Comp.3	Not determined	
	Comp.4	Weak irritation (300 _{µa} /3days)	
	Comp.5	Irritating in skin	
Serious eye damage or irritation	Category 2.		
	Comp.1	Corrosiveness in a rabbit	
	Comp.2	Not determined	
	Comp.3	Not determined	
	Comp.4	Not applicable	
	Comp.5	Irritating in eye	
Respiratory sensitization	Not determined		
Skin sensitization	Not determined		
Carcinogenicity	Not determined		
Mutagenicity	Not determined		
	Comp.1	Not determined	
	Comp.2	Not determined	
	Comp.3	Not determined	
	Comp.4	Not determined	
	Comp.5	Not determined	
Reproductive toxicity	Not determined		
Target organ toxicity			
Single exposure	Category 3.		
	Comp.1	Vomit, Nausea, dizziness	
	Comp.2	Not determined	
	Comp.3	Not determined	
	Comp.4	Not determined	
	Comp.5	Not determined	
Repeated exposure	Not determined		
Aspiration toxicity	Category 1.		
	Comp.1	Not determined	
	Comp.2	Not determined	
	Comp.3	Not determined	
	Comp.4	Not determined	
	Comp.5	Causes chemical pneumonia	

SECTION 12. ECOLOGICAL INFORMATION

1) ECOTOXICITY	
	Fish
	Comp.1 Not determined
	Comp.2 Not determined
	Comp.3 Not determined
	Comp.4 Not determined
	Comp.5 Not determined
	Crustacean
	Comp.1 Not determined
	Comp.2 Not determined
	Comp.3 Not determined
	Comp.4 Not determined
	Comp.5 Not determined
	Birds
	Not determined
2) PERSISTENCE AND DEGRADABILITY	Not determined
3) BIOACCUMULATION	
	Bioaccumulation
	Not determined
	Biodegradation
	Not determined
4) MOBILITY	Not determined
5) OTHER ECOLOGICAL INFORMATION	Not determined

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied.
Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.
Personal protective wear (Eye protector, glove, mask, cloth, boot) is required to dispose contain.

SECTION 14. TRANSPORT INFORMATION

1) UN NUMBER (UN NO.)	UN 1950
2) PROPER SHIPPING NAME	AEROSOLS
3) HAZARD CLASS	Flammable Gas
4) PACKING GROUP	Not determined
5) MARINE POLLUTANT	Not determined
6) EMS NUMBER	Not determined

SECTION 15. REGULATORY INFORMATION

1) KOREA OCCUPATION SAFETY AND HEALTH ACTS	Not determined
2) TCCA	Not determined
3) DANGEROUS GOODS SAFETY MANAGEMENT ACTS	Not determined
4) WASTE MANAGEMENT ACTS	Not determined
5) OTHER NATIONAL AND FOREIGN LAW	
	National law
	F-D
	Foreign law
	S-U

SECTION 16. OTHER INFORMATION

1) SOURCE OF DATA	Buhmwoo Institute of Technology Research(Raw materials MSDS of supplier) Korea Occupational Safety and Health Agency Occupation Safety and Health Acts Wastes Control Act (ACT NO.4363) Toxic Chemicals Control Act Safety Control of Dangerous Substances Act
2) FIRST ISSUE DATE	2005. 02. 23.
3) REVISION NO./FINAL REVISION DATE	
	Revision No. 2
	Revision Date 2013. 04. 23.
4) OTHER INFORMATION	

Comments listed in this MSDS is written based on our suppliers of raw materials and materials, and Industrial Safety and Health Act to be up-to-date information, at this point I believe. However, the risk of hazardous substances is not written to all the risks of hazardous substances exist there may be unknown hazards of all chemicals in this material may be prescribed. Precautions carefully review this information, and our customers and potential customers, he should take a look, and need to check conformance with applicable laws and regulations relating to the use and disposal of this product. Be created only for the purpose of describing the product operator of health, safety and environmental requirements to ensure that the specific nature of the product, this material should be understood. Of this product in the actual our control, as it is impossible to take any responsibility for the result of the use of this material, can not be assumed that, in the final conformity assessment, please understand that only the user is responsible. Normal handling this material, so if special handling, use, and usage suitable for establishing safety measures must be. This material can be revised based on the new information, please see the instruction manual attached to the packaging of this product before using the product specification (the catalog)