

Safety Data Sheet

HANWHA L&C CORPORATION

Date : 2015 .08 .13

1. Product and company identification

- a) Product Name : HANEX
- b) Recommended use of the chemical and restrictions on use
 - Interior finishing materials (Kitchen Surfaces, Counter Surfaces, Inner wall finishing)
- c) Manufacturer/Supplier/Distributor Information
 - Name : Hanwha L&C Corporation
 - Address
 - 1) H.Q. : 7F, CENTER1 Bldg, 26, Uljiro 5-gil, jung-gu, Seoul, Korea (Tel. +82-2-6364-7818)
 - 2) Plant : #37 Bukanggeumho-ro, Bukang-myun, Sejong, Korea (Tel. +82-44-279-8373)

2. Hazards identification

- a) Hazard·Risk Classification : N/A
- b) Label elements including precautionary statements
 - Symbol : N/A
 - Signal Word : N/A
 - Hazard·Risk Statement : N/A
 - Precautionary Statement : N/A
- c) Other Hazard·Risk which are not included in the classification criteria (NFPA)
 - Health : 1
 - Fire : 1
 - Reactivity : 0

3. Composition/Information on ingredients

Chemical Name	Other Name	CAS No.	Content(%)
HANEX	Acrylic Solid Surfaces	-	100

※ Hanex is produced through the chemical combination of under ingredients, and the individual possibility for bareness of each ingredient is rare.

Chemical Name	Other Name	CAS No.	Content(%)
Methyl Methacrylate, Polymerized	-	9011-14-7	30 ~ 50
Aluminium Trihydrate	-	21645-51-2	52 ~ 65
Methyl Methacrylate	-	80-62-6	< 1
Copolymer Colorants	-	-	< 5

4. First aid measures

- Eye contact : Wash with large amounts of water until no evidence of chemical remains (at least 15-20 minutes). Get medical attention, if needed.
- Skin contact : Wash with soap or mild detergent and large amounts of water until no evidence of chemical remains
- Ingestion : If vomiting occurs, keep head lower than hips to help prevent aspiration. Get medical attention, if needed.

5. Fire-Fighting measures

- Flammable properties : "HANEX" can be combusted only with difficulty.
- Extinguishing media : Water, Dry chemical, CO₂
- Hazardous gases/vapor produced in fire are carbon monoxide, methyl methacrylates, Aldehydes
- Fire fighting instructions
 - 1) Wear self-contained breathing apparatus.
 - 2) Keep personnel removed and upwind of fire.

6. Accidental Release Measures

- Safeguard (Personnel) : Use appropriate personal protective during clean up.
- Spill clean up : Recover undamaged and minimally contaminated material for reuse and reclamation.

7. Handling and Storage

- Handling (Personnel) :
Avoid breathing dust.
Avoid breathing fumes generated during sawing, routing or drilling.
- Storage : Store in a dry and cool place.

8. Exposure Controls and Personal Protection

- a) Chemical exposure standard, biological exposure standard : No information is available
- b) Engineering controls (ventilation) :
Use ventilation that is adequate to keep employee exposure to air borne concentration below exposure limits.
- c) Personal protection
Protective equipment : Eye/Face Protection
Wear safety glasses during operations such as sawing, sanding, drilling or routing.
Use safety gloves, earplug and safety shoes

9. Physical and Chemical Properties

- a) Appearance : A board
- b) Smell : Nothing
- c) pH : N/A
- d) Melting Point/Freezing point : N/A
- e) Boiling point and range : N/A
- f) Specific Gravity : 1.6 ~ 1.8
- g) Vapor Pressure : N/A
- h) Vapor Density : N/A
- i) Solubility : Insolubility
- j) Oder Threshold : N/A
- k) Evaporation rate : N/A
- l) Explosive : N/A

10. Stability and Reactivity

- a) Pyrolysate : Acrylate vapor release because of frictional heat(Saw)
- b) Toxic decomposition product : CO, Acrylate monomers, smog
- c) Toxic reaction : N/A
- d) Other information : In the presence of an ignition source is a potential dust explosion hazard
 - 1) Breath equipment : Use breathing equipment when it's poorly ventilated.
 - 2) Safety gloves : Use safety gloves
 - 3) Personal protection : Use earplug and safety shoes

11. Toxicological Information (1/2)

- a) Possible exposed path
 - 1) Acute breathe toxic : Yes (Dust)
 - 2) Acute oral toxic : No
 - 3) Skin contact : Yes
 - 4) Eye contact : Yes
- b) Physical, chemical and toxicological symptom : No information is available
- c) Influence by short-term and Long-term exposure
 - 1) Acute toxic
 - Oral : N/A
 - Skin : N/A
 - Inhalation : Inhalation irritant caused by heated acrylate vapor

11. Toxicological Information (2/2)

- 2) Skin : Skin irritant caused by heated acrylate vapor
- 3) Eye : Eye irritant caused by heated acrylate vapor
- 4) Inhalation irritant : No information is available
- 5) Skin irritant substance : No information is available
- 6) Carcinogenic substance
 - IARC : 3 (nonclassified)
 - ACGIH : nonclassified
- 7) Reproductive substance : No information is available
- 8) Organ, whole body toxic substance (once exposure) : No information is available
- 9) Organ, whole body toxic substance (repeated exposure) : No information is available

12. Ecological Information

- a) Biodegradation : N/A
- b) Bioaccumulation : N/A
- c) Aquatic Toxicity : N/A

13. Disposal Considerations

- a) Dispose in accordance with federal, state and local regulation.
- b) The owner of the material is responsible for proper waste disposal.
- c) Caution : Use breathing equipment to avoid breathing dust

14. Transport Information

- a) Product is not classified for any mode of transportation.
- b) Caution : Flat-Pallet Stacking

15. Regulatory Information

- a) Not classified as hazardous according to criteria of occupation safety and health acts
- b) Not classified as hazardous according to criteria of toxic chemicals control act
- c) National regulatory information
 - 1) USA regulation : TSCA registration
 - 2) Maleficence : N/A

16. Other Information

- a) The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.
- b) This information is based on technical information deemed reliable and is subject to revision as additional information is made available.
- c) Responsibility for SDS: "Hanex" products

※ Enactment and Revision

- a) Date of preparation : 2004.02.12
- b) A number of revision and final revision date
 - 1) A number of Revision : 2
 - 2) Final revision date : 2015.08.13