

MATERIAL SAFETY DATA SHEET

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



Product Name	НМ-779.6
1. Product and Company Identification	
A. Product Name	HM-779.6
B. Recommended use of the chemical	Bond the Metal, wood, rubber, HPM, plastics etc.
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. Classification of the substance or mixtur	re
- Classification according to Regulation (EC) No 1272/2008 - GHS/CLP	The product is not classified according to the CLP regulation.
Classification according to Directive 67	7/548/EEC or Directive 1999/45/EC Not applicable.
B. Label elements	
- Labelling according to Directive 67/548/EEC or Directive 1999/45/EC	Observe the general safety regulations when handling chemicals. The product is not subject to identification regulations under EU Directives and th Ordinance on Hazardous Materials (German GefStoffV).
C. Other hazards	
- Results of PBT and vPvB assessment	PBT: Not applicable.
	vPvB: Not applicable.
3. Composition/Information on ingredier	nts
A. Chemical characterization	Mixtures
B. Dangerous components	CAS-No Description Index R-phrases Void
4. First aid measures	
A. Description of first aid measures	
- General information	No special measures required.
- After inhalation	Supply fresh air; consult doctor in case of complaints.
- After skin contact	Generally the product does not irritate the skin.
	After contact with the molten product, cool rapidly with cold water.
	If skin irritation continues, consult a doctor.
- After eye contact	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
	Seek medical treatment.
- After swallowing	
 After swallowing Information for doctor 	Most important symptoms and effects, both acute and delayed No further relevant information available.

5. Fire-Fighting measures

A. Extinguishing media

- Suitable extinguishing agents	CO ₂ , powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
B. Special hazards arising from the substan	ice or mixture
	Ethanoic acid
C. Advice for firefighters	
- Protective equipment	Wear self-contained respiratory protective device.
6. Accidental release measures	
A. Personal precautions, protective equipm	ent and emergency procedures
	Avoid formation of dust.
	Use respiratory protective device against the effects of fumes/dust/aeroso
B. Environmental precautions	No special measures required.
C. Methods and material for containment ar	nd Allow to solidify. Pick up mechanically.
cleaning up:	
D. Reference to other sections	No dangerous substances are released.
7. Handling and storage	
A. Handling	
- Precautions for safe handling	Use appropriate industrial vacuum cleaners or central vacuum systems for dust removal.
	Any unavoidabledeposit of dust must be regularly removed.
>> Protect against electrostatic charg	ges. <<
- Information about fire - and explosion protection	Dust can combine with air to form an explosive mixture.
B. Conditions for safe storage, including ar	ny incompatibilities
- Storage	Requirements to be met by storerooms and receptacles: No special measures required.
	Further information about storage conditions: None.
C. Specific end use(s)	No further relevant information available.
8. Exposure controls & personal protecti	on
A. Additional information about design of te	echnical facilities
	No further data; see item 7.
B. Control parameters	Ingredients with limit values that require monitoring at the workplace
	CAS No. : 557-05-1
	Designation of material : Zinc stearate
	% : 2
	(Type) Value Unit
	WEL (Great Britain) Short-term value: 20* mg/m³

WEL (Great Britain) Short-term value: 20* mg/m³ Long-term value: 10* 4** mg/m³ *inhalable dust **respirable dust PEL (USA) 15* 5** mg/m³ *total dust **respirable fraction REL (USA) 10* 5** mg/m³ *total dust **respirable fraction

TLV (USA) 10 mg/m³

C.	Exposure	contro	ls
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- Personal protective equipment	General protective and hygienic measures : The usual precautionary measures are to be adhered to when handling chemicals. Wash hands before breaks and at the end of work. Respiratory protection : Use suitable respiratory protective
- Personal protective equipment	Recommended filter device for short term use : Filter P1
	Protection of hands : Heat resistant gloves
	Material of gloves Leather gloves
	Eve protection : Safety glasses

9. Physical and chemical properties

A. General Information	
- Appearance	Form : Solid
	Colour : According to product specification
– Odour	Weak, characteristic
B. Change in condition	Solvent
- Boiling point/Boiling range	Undetermined.
- Fusion temperature / range	105 °C
C. Flash point	Not applicable.
D. Self-igniting	Product is not selfigniting.
E. Danger of explosion	Product does not present an explosion hazard.
F. Density at 20°C	1.38 g/cm ³
G. Solubility in / Miscibility with	No data available
- water	Insoluble.
- Organic solvents	0.00%
H. Other information	No further relevant information available.
10. Stability and reactivity	
A. Reactivity	
- Chemical stability	Thermal decomposition / conditions to be avoided : To avoid thermal decomposition do not overheat.
B. Possibility of hazardous reactions	No dangerous reactions known.
C. Conditions to avoid	No further relevant information available.
D. Incompatible materials	No further relevant information available.
E. Hazardous decomposition products	No dangerous decomposition products known.
F. Additional information	When hotmelt adhesives are melted and applied, vapours are set free and an unpleasant odour can occur, even if the recommended working temperature has been observed. Moreover if the prescribed working temperature is exceeded over a longer period, harmful decomposition products can develop. Precautions should be taken to eliminate the vapours, e.g. by using a suitable ventilation system. Therefore measures for the elimination of the vapours have to be taken, e.g. by means of an appropriate ventilation/ exhaust device.
11. Toxicological information	
 A. Information on toxicological effects B. Health hazards information Acute toxic 	No data available
Primary irritant effect	on the skin: No irritant effect.

on the eye: No irritating effect.

Sensitization

- Additional toxicological information The pro-

No sensitizing effects known.

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12. Ecological information

A. Toxicity	
- Acquatic toxicity:	No further relevant information available.
B. Persistence and degradability	No further relevant information available.
- Other information	The product is difficultly biodegradable.
C. Behaviour in environmental systems	
- Bioaccumulative potential	No further relevant information available.
– Mobility in soil	No further relevant information available.
D. Additional ecological information	
- General notes	Generally not hazardous for water
E. Results of PBT and vPvB assessment	
- PBT	Not applicable.
– vPvB	Not applicable.
F. Other adverse effects	No further relevant information available.
13. Disposal considerations	
A. Waste treatment methods	
- European waste catalogue	08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09
B. Uncleaned packaging	Destroy the product by incineration
- Recommendation	Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
14. Transport information	
A. Transport hazard class(es)	
– ADR, IMDG	Class : No dangerous good
– IATA	Class : Not classified as dangerous goods under IATA regulations
B. Environmental hazards	
- Marine pollutant	No
C. Special precautions for user	Not applicable.
D. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

15. Regulatory information

A. Safety, health and environmental regulations/legislation specific for the substance or mixture

- National regulations	
Other regulations, limitations and prohibitive regulations	Please note
	Substances of very high concern (SVHC) according to REACH, Article 57
B. Chemical safety assessment	A Chemical Safety Assessment has not been carried out.

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

JAPAN

Building Standard Law on Sick House Issues, enforced on July 1,2003

Registration 779.6 : J A I A 005687 F

Volatile Organic Compounds

4 VOC放散速度基準:

Registration 779,6 : J A I A 403231 4VOC

A. Department issuing MSDS : Safety & Environment

B. Contact: Dr. Wolfgang Stüber

- Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association ICAO: International Civil Aviation Organization GHS: Globally Harmonized System of Classification and Labelling of Chemicals CAS: Chemical Abstracts Service (division of the American Chemical Society)

* Data compared to the previous version altered.

C. Issuing date 2012-2-1