

**HLT3500LV****000000025851**

Version 1.0

Issuing date 05/21/2021

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**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name : HLT3500LV

Number : 000000025851

Recommended use of the chemical and restrictions on use : Electronic Materials

Manufacturer or supplier's details : Honeywell International Inc.  
115 Tabor Road  
Morris Plains, NJ 07950-2546  
USA

For further information, please contact: : +1-509-252-2200  
(Monday-Friday, 9:00am-5:00pm)

**In case of emergency call** : **Medical: 1-800-498-5701 or +1-303-389-1414**  
: **Transportation (CHEMTREC): 1-800-424-9300 or +1-703-527-3887**  
**In China: 4001-204937 or +86 532-83889090**

**2. HAZARDS IDENTIFICATION****Classification of the substance or mixture**

Not a dangerous substance according to GHS.

**GHS Label elements, including precautionary statements**

Not a dangerous substance according to GHS.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical nature : Mixture

Chemical name	CAS-No.	Concentration
Aluminium oxide	1344-28-1	87.00 - 95.00 %
Aluminium oxide		
Silicone	63394-02-5	5.00 - 12.00 %
Silicone		
Boron nitride	10043-11-5	0.20 - 1.00 %
Boron nitride		

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**4. FIRST AID MEASURES**

- General advice : Get medical attention.  
Show this safety data sheet to the doctor in attendance.  
First aider needs to protect himself.
- Inhalation : Remove victim from exposure and then have him lie down in the recovery position.  
If not breathing, give artificial respiration.  
Use oxygen as required, provided a qualified operator is present.  
Keep respiratory tract clear.  
Keep patient warm and at rest.  
If symptoms persist, call a physician.
- Skin contact : Take off immediately all contaminated clothing.  
Wash off with soap and plenty of water.  
Call a physician if irritation develops or persists.
- Eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Call a physician if irritation develops or persists.
- Ingestion : If swallowed, rinse mouth with water (only if the person is conscious).  
Never give anything by mouth to an unconscious person.  
DO NOT induce vomiting unless directed to do so by a physician or poison control center.  
If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration.  
Call a physician.
- Notes to physician : Treat symptomatically.

**5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder  
Water spray
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.
- Specific hazards during firefighting : The product is not flammable.  
Fire or intense heat may cause violent rupture of packages.

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Hazardous decomposition products formed under fire conditions.

Special protective equipment for firefighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

Further information : Evacuate personnel to safe areas.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Prevent fire extinguishing water from contaminating surface water or the ground water system.

**6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.  
Wear personal protective equipment. Unprotected persons must be kept away.  
Ensure adequate ventilation.  
Avoid breathing vapours, mist or gas.  
Avoid contact with skin, eyes and clothing.

Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Do not flush into surface water or sanitary sewer system.  
Do not allow run-off from fire fighting to enter drains or water courses.  
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Ventilate the area.  
Sweep up and shovel into suitable containers for disposal.  
Dispose of in accordance with local regulations.

**7. HANDLING AND STORAGE****Handling**

Precautions for safe handling : Wear personal protective equipment.  
Use only with adequate ventilation.  
Avoid breathing vapours, mist or gas.  
Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

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**Storage**

Conditions for safe storage, including any incompatibilities : Keep tightly closed in a dry, cool and well-ventilated place.  
 Store in original container.  
 Store in upright position only.  
 Protect from physical damage.  
 Store away from incompatible substances.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
**Components with workplace control parameters**

Components	CAS-No.	Value	Control parameters	Update	Basis
Aluminium oxide Aluminium oxide	1344-28-1	TWA : Time weighted average	4 mg/m <sup>3</sup>	2007	CN OEL:China. OELs (Occupational Exposure Limits for Hazardous Agents in the Workplace) (GBZ 2.1), as amended
Further information	:	Form of exposure : Total dust.			

**Appropriate engineering controls**

Use with local exhaust ventilation.

**Individual protection measures, such as personal protective equipment**

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection : Protective gloves  
 Gloves must be inspected prior to use.  
 Replace when worn.

Eye protection : Safety glasses with side-shields

Skin and body protection : Protective suit

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

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Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.  
Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.  
Avoid breathing vapours, mist or gas.  
Avoid contact with skin, eyes and clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state : paste

Colour : white to red

Odour : none

pH : Note: No data available

Melting point/range : Note: No data available

Boiling point/boiling range : Note: No data available

Flash point : Note: Not applicable

Evaporation rate : Note: No data available

Lower explosion limit : Note: No data available

Upper explosion limit : Note: No data available

Vapour pressure : Note: No data available

Vapour density : Note: No data available

Density : 3.2 g/cm<sup>3</sup> at 25 °C

Water solubility : Note: No data available

Partition coefficient: n-octanol/water : Note: No data available

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Ignition temperature	: Note: No data available
Decomposition temperature	: Note: No data available
Viscosity, dynamic	: Note: No data available
Viscosity, kinematic	: Note: No data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Molecular weight	: Note: Not applicable

**10. STABILITY AND REACTIVITY**

Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: Hazardous polymerisation does not occur.
Conditions to avoid	: No data available
Incompatible materials to avoid	: Strong oxidizing agents
Hazardous decomposition products	: Hazardous decomposition products formed under fire conditions.

**11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity	: Note: No data available
Acute inhalation toxicity	: Note: No data available
Acute dermal toxicity	: Note: No data available
Skin corrosion/irritation	: Note: No data available
Serious eye damage/eye irritation	: Note: No data available
Respiratory or skin sensitisation	: Note: No data available
Germ cell mutagenicity	: Note: No data available

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Carcinogenicity : Species: not specified  
Note: No data available

Reproductive toxicity : Species: not specified  
Note: No data available

Further information  
Boron nitride : The data we have is not sufficient for an toxicological  
evaluation. Usual hygienic measures must be taken as the  
case is when dealing with chemicals.

**12. ECOLOGICAL INFORMATION****Aquatic and ecotoxicity**

Toxicity to fish : Note: No data available

Toxicity to daphnia and other : Note: No data available  
aquatic invertebrates

Toxicity to algae : Note: No data available

**Persistence and degradability**

Biodegradability : Note: No data available

**Mobility in soil**

Mobility : Note: No data available

**Other adverse effects**

Additional ecological : We have no quantitative data concerning the ecological  
information effects of this product.

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**13. DISPOSAL CONSIDERATIONS**

Disposal methods : In accordance with local and national regulations.

**14. TRANSPORT INFORMATION****CNDG**

Not dangerous goods

**IATA**

Not dangerous goods

**IMDG**

Not dangerous goods

**RID**

Not dangerous goods

**15. REGULATORY INFORMATION****National regulatory information**

: Refer to the following regulations: Dangerous Chemicals Management Ordinance, the State Council Order No. 591; GB16483-2008 MSDS content and order of items; GB-T 17519-2013 Material Safety Data Sheet written rules; GB12268-2012 Name List of dangerous goods; GB6944-2012 and the name of dangerous goods classification number; GB13690-2009 chemical formula for risk classification and General; GBZ 2.1-2019 workplace hazards Part 1 occupational exposure limit chemical hazards; GB30000.2~29-2013 classification of chemicals, warning labels and warning statements of safety norms

**Other international regulations****Notification status**

US. Toxic Substances Control Act : Not On TSCA Inventory

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Australia. Industrial Chemical (Notification and Assessment) Act : On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) : All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List : Not in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI) : Not in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS) : On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC) : Not in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand : On the inventory, or in compliance with the inventory

## 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 1	1
Flammability	: 1	1
Physical Hazard	: 0	
Instability	:	0

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

### Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a

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guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group