Honeywell

TG5500

10661493

Version 1.0 Revision Date 05/24/2019 Print Date 02/20/2020

SECTION 1. IDENTIFICATION

Product name : TG5500

Number : 000000024075

Product Use Description : Electronic Materials

Manufacturer or supplier's

details

Honeywell International Inc.

115 Tabor Road

Morris Plains, NJ 07950-2546

For more information call : 1-480-293-9800(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

(24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Form : paste

Color : grey

Odor : none

Classification of the substance or mixture

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS).

GHS Label elements, including precautionary statements

Hazards not otherwise

classified

: Repeated or prolonged exposure may irritate eyes, skin and

respiratory system.

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Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

Chemical name	CAS-No.	Concentration
Aluminium	7429-90-5	50.00 - 80.00 %
Zinc oxide	1314-13-2	5.00 - 20.00 %
Polydimethylsiloxane	63148-62-9	5.00 - 10.00 %
Naphtha (petroleum), hydrotreated heavy	64742-48-9	1.00 - 3.00 %

SECTION 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.

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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

Indication of immediate medical attention and special treatment needed, if necessary : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Alcohol-resistant foam

Carbon dioxide (CO2)

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.

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.

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SECTION 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

Ventilate the area.

Sweep up and shovel into suitable containers for disposal.

Dispose of in accordance with local regulations.

SECTION 7. HANDLING AND STORAGE

Handling

up

Precautions for safe

handling

Wear personal protective equipment.
Use only with adequate ventilation.
Avoid breathing vapours, mist or gas.

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.

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.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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.

Engineering measures : Use with local exhaust ventilation.

Eye protection : Safety glasses with side-shields

Hand protection : Protective gloves

Gloves must be inspected prior to use.

Replace when worn.

Skin and body protection : Protective suit

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

equipment.

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

practice.

Exposure Guidelines

Exposure our	40111	100				
Components		CAS-No.	Value	Control parameters	Upda te	Basis
Aluminium		7429-90-5	TWA : Time weighted average	1 mg/m3	2008	ACGIH:US. ACGIH Threshold Limit Values
Further information	:	Form of exposure	: Respirable	e fraction.		

Aluminium		7429-90-5	REL: Recomm ended exposure limit (REL):	5 mg/m3	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
Further information	:	Form of exposure :	Respirable).		

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Version 1.0 Revision Date 05/24/2019 Print Date 02/20/2020 7429-90-5 REL: 2005 NIOSH/GUIDE:US. Aluminium 5 mg/m3 Recomm NIOSH: Pocket ended Guide to Chemical exposure Hazards limit (REL): Form of exposure: Welding fume or pyrophoric powder. **Further** information Expressed as: as Al 10 mg/m3 NIOSH/GUIDE:US. Aluminium 7429-90-5 REL: 2005 NIOSH: Pocket Recomm ended Guide to Chemical exposure Hazards limit (REL): Further Form of exposure : Total information Aluminium 7429-90-5 PEL: 15 mg/m3 02 OSHA TRANS:US. OSHA Table Z-1 Permissi 2006 ble Limits for Air exposure Contaminants (29 limit CFR 1910.1000) Form of exposure : Total dust. Further information Expressed as: as Al Aluminium 7429-90-5 PEL: 5 mg/m3 02 OSHA_TRANS:US. Permissi 2006 OSHA Table Z-1 Limits for Air ble exposure Contaminants (29 CFR 1910.1000) limit Further Form of exposure: Respirable dust. Expressed as: as Al information Aluminium 7429-90-5 TWA: 5 mg/m3 1989 Z1A:US. OSHA Time Table Z-1-A (29 weighted CFR 1910.1000) average Further Form of exposure: Fume. information Expressed as: as Al

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on 1.0		<u> </u>	Revision Date	05/24/2019		Print Date 02/20/2
	1 1					
Aluminium		7429-90-5	TWA: Time weighted average	15 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
Further information	:	Form of exposur Expressed as : a				
Aluminium		7429-90-5	TWA: Time weighted average	5 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
Further information	:	Form of exposur Expressed as : a	e : Respirable	dust.		
Aluminium		7429-90-5	TWA: Time weighted average	5 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
Further information	:	Form of exposur Expressed as : a	e : Pyrophorio	powder.		
Zinc oxide		1314-13-2	STEL: Short term exposure limit	10 mg/m3	2008	ACGIH:US. ACGIH Threshold Limit Values
Further information	:	Form of exposur	e : Respirable	e fraction.	•	
Zinc oxide		1314-13-2	TWA: Time weighted average	2 mg/m3	2008	ACGIH:US. ACGIH Threshold Limit Values
Further information	:	Form of exposur		e fraction.		

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Zinc oxide 1314-13-2 REL: Recomm ended exposure limit (REL): Further information 1314-13-2 REL: 5 mg/m3 2005 NIOSH/G NIOSH: P Guide to 0 Hazards	
Zinc oxide	UIDE:US.
Recomm ended exposure limit (REL): Further : Form of exposure : Fume. Zinc oxide 1314-13-2 REL : 5 mg/m3 2005 NIOSH/G	Pocket
information Zinc oxide 1314-13-2 REL: 5 mg/m3 2005 NIOSH/G	
ended Guide to General Hazards limit (REL):	
Further : Form of exposure : Dust. information	
Zinc oxide 1314-13-2 Ceil_Tim e: Ceiling Limit Value and Time Period (if specified) :	
Further : Form of exposure : Dust. information	
Short term Guide to 0 Hazards	UIDE:US. Pocket Chemical
Further : Form of exposure : Fume. information	
Zinc oxide 1314-13-2 PEL: Permissi ble exposure limit 5 mg/m3 02 OSHA_TR OSHA Ta Limits for Contamin CFR 1910	Air ants (29
Further : Form of exposure : Fume.	

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information					
Zinc oxide	1314-13-2	PEL: Permissi ble exposure limit	5 mg/m3	02 2006	OSHA_TRANS:US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Further information	: Form of exposure	e : Respirable	e fraction.		
Zinc oxide	1314-13-2	PEL: Permissi ble exposure limit	15 mg/m3	02 2006	OSHA_TRANS:US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Further information	Form of exposure	e : Total dust			1
Zinc oxide	1314-13-2	STEL: Short term exposure limit	10 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
Further information	Form of exposure	e : Fume.			
Zinc oxide	1314-13-2	TWA: Time weighted average	5 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
Further information	: Form of exposure	e : Fume.			
Zinc oxide	1314-13-2	TWA: Time weighted average	5 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)

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	101110	T=14.4	1.0 / 0	1,000	T=4.4.110.00114
Zinc oxide	1314-13-2	TWA:	10 mg/m3	1989	Z1A:US. OSHA
		Time			Table Z-1-A (29
		weighted			CFR 1910.1000)
		average			
Further :	Form of exposure	: Total dust			
information					
Naphtha	64742-48-9	REL:	400 mg/m3	2010	NIOSH/GUIDE:US.
(petroleum),		Recomm	(100 ppm)		NIOSH: Pocket
hydrotreated		ended			Guide to Chemical
heavy		exposure			Hazards
-		limit			
		(REL):			
Naphtha	64742-48-9	PEL:	400 mg/m3	02	OSHA_TRANS:US.
(petroleum),		Permissi	(100 ppm)	2006	OSHA Table Z-1
hydrotreated		ble	, , ,		Limits for Air
heavy		exposure			Contaminants (29
		limit			CFR 1910.1000)
					,
	•	•		•	
Naphtha	64742-48-9	TWA:	400 mg/m3	1989	Z1A:US. OSHA
(petroleum),		Time	(100 ppm)		Table Z-1-A (29
hydrotreated		weighted			CFR 1910.1000)
heavy		average			'
	ı		1		1

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : paste

Color : grey
Odor : none

Odor threshold : Note: no data available

pH : Note: no data available

Melting point/range : Note: no data available

Boiling point/boiling range : Note: no data available

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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

Vapor pressure : Note: no data available

Vapor density : Note: no data available

Density : 2.5 g/cm3 at 25 °C

Water solubility : Note: no data available

Partition coefficient: n-

octanol/water

: Note: no data available

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.

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SECTION 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 : Strong oxidizing agents

Hazardous decomposition

products

: Hazardous decomposition products formed under fire

conditions.

SECTION 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 irritation : Note: no data available

Eye irritation : Note: no data available

Sensitisation : Note: no data available

Further information : Note: No toxicology information is available.

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

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

Elimination information (persistence and degradability)

Bioaccumulation : Note: no data available

Biodegradability : Note: no data available

Further information on ecology

Additional ecological

information

: We have no quantitative data concerning the ecological

effects of this product.

SECTION 13. DISPOSAL CONSIDERATIONS

: Observe all Federal, State, and Local Environmental Disposal methods

regulations.

SECTION 14. TRANSPORT INFORMATION

DOT Not dangerous goods

TDG Not dangerous goods

IATA Not dangerous goods

IMDG Not dangerous goods

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SECTION 15. REGULATORY INFORMATION

Inventories

US. Toxic Substances

Control Act

: On TSCA Inventory

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

: On the inventory, or in compliance with the inventory

Korea. Existing Chemicals

Inventory (KECI)

: On the inventory, or in compliance with the inventory

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control

Act

: On the inventory, or in compliance with the inventory

China. Inventory of Existing

Chemical Substances

: On the inventory, or 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

National regulatory information

SARA 302 Components : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 Components : The following components are subject to reporting levels

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established by SARA Title III, Section 313:
Aluminium 7429-90-5
Zinc oxide 1314-13-2

SARA 311/312 Hazards : Acute Health Hazard

California Prop. 65 : This product does not contain any chemicals known to State of

California to cause cancer, birth defects, or any other

reproductive harm.

Massachusetts RTK : Aluminium 7429-90-5

: Zinc oxide: Naphtha (petroleum), hydrotreated: Additional control oxide: Additional

heavy

New Jersey RTK : Aluminium 7429-90-5

: Zinc oxide: Naphtha (petroleum), hydrotreated: A4742-48-9

heavy

Pennsylvania RTK : Aluminium 7429-90-5

: Zinc oxide: Naphtha (petroleum), hydrotreated: Additional control oxide: Additional

heavy

SECTION 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

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