SAFETY DATA SHEET



1. Identification

Product identifier AUREX 65 PLASTIC

Other means of identification

Brand Code 1768

Recommended use For Industrial Use Only

Recommended restrictions Workers (and your customers or users in the case of resale) should be informed of the potential

presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required

under applicable regulations.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name HarbisonWalker International

Address 1305 Cherrington Parkway, Suite 100

Moon Township, Pennsylvania 15108 US

Telephone General Phone: 412-375-6600

Website www.thinkHWI.com

Emergency phone number CHEMTREC 24 HOUR 1-800-424-9300

EMERGENCY #

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Skin corrosion/irritation Category 1A

Serious eye damage/eye irritation Category 1
Carcinogenicity Category 1A
Specific target organ toxicity, repeated Category 1

exposure

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements





Signal word Danger

Hazard statement May cause cancer. Causes serious eye damage. Causes severe skin burns and eye damage.

Causes damage to organs through prolonged or repeated exposure.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Wear eye protection/face protection. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Do not eat, drink or smoke

when using this product. Do not breathe dust/fume/gas/mist/vapors/spray.

Response Wash contaminated clothing before reuse. Get medical advice/attention if you feel unwell.

Immediately call a poison center/doctor. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If exposed or concerned: Get medical advice/attention.

Storage Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

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3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Chromium (III) oxide		1308-38-9	40 - 60
Aluminium Oxide (Non-Fibrous)		1344-28-1	20 - 40
Orthophosphoric Acid		7664-38-2	2.5 - 10
Aluminium Tris(Dihydrogen Phosphate)		13530-50-2	1 - 2.5
Trade Secret*		Proprietary*	1 - 2.5
Quartz (SiO2)		14808-60-7	0.1 - 1
Other components below reportable	levels		2.5 - 10

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists. Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison

control center immediately. Chemical burns must be treated by a physician. Wash contaminated

clothing before reuse.

Get medical attention immediately. Immediately flush eyes with plenty of water for at least 15 Eye contact

minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or

poison control center immediately.

Rinse mouth. Get medical attention if symptoms occur. Call a physician or poison control center Ingestion

immediately. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. Permanent eye damage including blindness could result. Burning pain and severe corrosive skin damage. Causes serious eye damage. Prolonged exposure may cause chronic effects.

doesn't get into the lungs.

Most important

symptoms/effects, acute and

delaved

Indication of immediate medical attention and special

treatment needed

Treat symptomatically. Symptoms may be delayed. Keep victim under observation. Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an

ambulance. Continue flushing during transport to hospital.

General information IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware

of the material(s) involved, and take precautions to protect themselves. If you feel unwell, seek

medical advice (show the label where possible).

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing

media

Not available.

Not available.

Specific hazards arising from

the chemical

Not applicable.

Special protective equipment

and precautions for firefighters

Material can be slippery when wet.

Fire fighting

equipment/instructions

Use water spray to cool unopened containers.

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Material can be slippery when wet.

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Methods and materials for containment and cleaning up

Put material in suitable, covered, labeled containers.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

Environmental precautions

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Provide adequate ventilation. Should be handled in closed systems, if possible. Observe good industrial hygiene practices. Do not get this material in contact with eyes. Wear appropriate personal protective equipment. Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling. When using, do not eat, drink or smoke. Do not breathe dust. Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage, including any incompatibilities

Store locked up. Store away from incompatible materials (see Section 10 of the SDS). Keep container tightly closed. Store in original tightly closed container.

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Limits for Air Components	Contaminants (29 CFR 1910.100 Type	00) Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	PEL	5 mg/m3	Respirable fraction.
,		15 mg/m3	Total dust.
Chromium (III) oxide (CAS 1308-38-9)	PEL	0.5 mg/m3	
Orthophosphoric Acid (CAS 7664-38-2)	PEL	1 mg/m3	
Quartz (SiO2) (CAS 14808-60-7)	PEL	0.05 mg/m3	
US. OSHA Table Z-3 (29 CFR 1910.	1000)		
Components	Туре	Value	Form
Quartz (SiO2) (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.
US. ACGIH Threshold Limit Values			
Components	Туре	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction.
Aluminium Tris(Dihydrogen Phosphate) (CAS 13530-50-2)	TWA	1 mg/m3	Respirable fraction.
Chromium (III) oxide (CAS 1308-38-9)	TWA	0.5 mg/m3	
Orthophosphoric Acid (CAS 7664-38-2)	STEL	3 mg/m3	
- /	TWA	1 mg/m3	
Quartz (SiO2) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.

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US. NIOSH: Pocket Guide to Chemical Hazards			
Components	Туре	Value	Form
Aluminium Tris(Dihydrogen Phosphate) (CAS 13530-50-2)	TWA	2 mg/m3	
Chromium (III) oxide (CAS 1308-38-9)	TWA	0.5 mg/m3	
Orthophosphoric Acid (CAS 7664-38-2)	STEL	3 mg/m3	
•	TWA	1 mg/m3	
Quartz (SiO2) (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.

No biological exposure limits noted for the ingredient(s). **Biological limit values**

Exposure guidelines Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica

should be monitored and controlled.

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Hand protection For prolonged or repeated skin contact use suitable protective gloves. Wear appropriate chemical

resistant gloves. Suitable gloves can be recommended by the glove supplier.

Other Wear suitable protective clothing. Wear appropriate chemical resistant clothing. Use of an

impervious apron is recommended.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. Use a particulate filter

respirator for particulate concentrations exceeding the Occupational Exposure Limit.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Observe any medical surveillance requirements.

9. Physical and chemical properties

Appearance

Solid. **Physical state** Solid. **Form**

Color Not available. Not available. Odor **Odor threshold** Not available. Not available. pН Melting point/freezing point Not available. Initial boiling point and boiling Not available.

range

Not available. Flash point Not available. **Evaporation rate** Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower Not available.

(%)

Flammability limit - upper

(%)

Not available.

Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available.

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Vapor pressureNot available.Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

Explosive properties Not explosive. **Oxidizing properties** Not oxidizing.

10. Stability and reactivity

Reactivity Not available.

Chemical stability Not available.

Possibility of hazardous Not available.

reactions

Conditions to avoidContact with incompatible materials.

Incompatible materialsAcids. Chlorine.Hazardous decompositionNot available.

products

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system.

Skin contact Causes severe skin burns.

Eye contact Causes serious eye damage.

Ingestion Causes digestive tract burns.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Burning pain and severe

corrosive skin damage. Causes serious eye damage.

Information on toxicological effects

Acute toxicity Not known.

Skin corrosion/irritation Causes severe skin burns and eye damage.

Serious eye damage/eye Causes serious eye damage.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization Not available.

Germ cell mutagenicity Not available.

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Carcinogenicity

May cause cancer. In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled. In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) Risk of cancer cannot be excluded with prolonged exposure.

IARC Monographs. Overall Evaluation of Carcinogenicity

3 Not classifiable as to carcinogenicity to humans. Chromium (III) oxide (CAS 1308-38-9)

Quartz (SiO2) (CAS 14808-60-7) 1 Carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens

Quartz (SiO2) (CAS 14808-60-7) Known To Be Human Carcinogen.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Reproductive toxicity Not available.

Developmental effects

Quartz (SiO2)

Quartz (SiO2) 0 **Developmental effects - EU category** Quartz (SiO2) 0 **Embryotoxicity** Quartz (SiO2) n Reproductivity

Specific target organ toxicity -

single exposure

Not available.

Specific target organ toxicity -

repeated exposure

Causes damage to organs through prolonged or repeated exposure.

0

Aspiration hazard Not available.

Chronic effects Causes damage to organs through prolonged or repeated exposure. Prolonged exposure may

cause chronic effects.

12. Ecological information

Ecotoxicity No ecotoxicity data noted for the ingredient(s).

Persistence and degradability Not available. Not available. Bioaccumulative potential Mobility in soil Not available. Other adverse effects Not available.

13. Disposal considerations

Disposal instructions Dispose of contents/container in accordance with local/regional/national/international regulations.

Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Dispose in accordance with all applicable regulations. Local disposal regulations

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

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14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to

Not available.

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Orthophosphoric Acid (CAS 7664-38-2) Listed.

SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Chromium (III) oxide	1308-38-9	40 - 60
Aluminium Oxide (Non-Fibrous)	1344-28-1	20 - 40

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Chromium (III) oxide (CAS 1308-38-9)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Orthophosphoric Acid (CAS 7664-38-2) High priority

US state regulations WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Quartz (SiO2) (CAS 14808-60-7) Listed: October 1, 1988

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Orthophosphoric Acid (CAS 7664-38-2) Quartz (SiO2) (CAS 14808-60-7)

International Inventories

Country(s) or region Inventory name On inventory (yes/no)*

Australia Australian Inventory of Chemical Substances (AICS)

Yes

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Country(s) or region	inventory name	On inventory (yes/no)
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical	Yes

Substances (EINECS)

Inventory name

Europe European List of Notified Chemical Substances (ELINCS) No Inventory of Existing and New Chemical Substances (ENCS) Japan No Existing Chemicals List (ECL) Korea Yes New Zealand New Zealand Inventory Yes **Philippines** Philippine Inventory of Chemicals and Chemical Substances Yes

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

On inventory (vec/ne)*

16. Other information, including date of preparation or last revision

11-12-2015 Issue date **Revision date** 11-23-2016

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Country(s) or region

HarbisonWalker International cannot anticipate all conditions under which this information and its Disclaimer

product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently

available.

Revision information This document has undergone significant changes and should be reviewed in its entirety.

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^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).