

# SAFETY DATA SHEET

# 1. Identification

Product identifier	ECLIPSE-60 P ADTECH; ECLIPSE-60 P ADTECH WF	
Other means of identification		
Brand Code	2031, 0891	
Recommended use	For Industrial Use Only	
Recommended restrictions	Users 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/Supplier 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 EMERGENCY #	1-800-424-9300	

# 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
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	

#### Label elements

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Signal word	Danger
Hazard statement	Causes severe skin burns and eye damage. Causes serious eye damage. May cause cancer.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash thoroughly after handling. Wear eye/face protection. Wear protective gloves/protective clothing/eye protection.
Response	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 concerned: Get medical advice/attention. Immediately call a poison center/doctor. Wash contaminated clothing before reuse.
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.
Supplemental information	Users should be informed of the potential presence of respirable dust and respirable crystalline silica as well as their potential hazards. Overexposure to the respirable dust of crystalline silica (quartz or cristobalite, less than or equal to 5 microns in size) may lead to silicosis in humans, which is a progressive and irreversible lung disease. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
SILICON CARBIDE			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 le	evels		10 - 20

Other components below reportable levels

\*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	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.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Coughing.
Indication of immediate medical attention and special treatment needed	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. Keep victim under observation. Symptoms may be delayed.
General information	If concerned: Get medical advice. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.
5. Fire-fighting measures	
Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	Not available.
Specific hazards arising from the chemical	Not applicable.

Not available. Special protective equipment and precautions for firefighters

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Material can be slippery when wet. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.		
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. 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.		
Environmental precautions	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.		

# 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. Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

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

#### 8. Exposure controls/personal protection

#### Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
Orthophosphoric Acid (CAS 7664-38-2)	PEL	1 mg/m3	
SILICON CARBIDE	PEL	5 mg/m3 15 mg/m3	Respirable fraction. Total dust.
TRADE SECRET	PEL	1 mg/m3	
US. OSHA Table Z-3 (29 CFR 191		Value	Form
Components	Туре		FUIII
Quartz (SiO2) (CAS 14808-60-7)	TWA	0.3 mg/m3	Total dust.
-		0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.
US. ACGIH Threshold Limit Value			
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.
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.
TRADE SECRET	STEL	2 mg/m3	
	TWA	1 mg/m3	
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Туре	Value	Form
Aluminium Tris(Dihydrogen Phosphate) (CAS 13530-50-2)	TWA	2 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.
SILICON CARBIDE	TWA	5 mg/m3 10 mg/m3	Respirable. Total
TRADE SECRET	STEL	2 mg/m3	
	TWA	1 mg/m3	
ogical limit values No	biological exposure limits noted f	for the ingredient(s)	

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

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. Eye wash facilities and emergency shower must be available when handling this product.
Individual protection measures	s, such as personal protective equipment
Eye/face protection	Wear safety glasses with side shields (or goggles) and a face shield.
Skin protection Hand protection	Wear appropriate chemical resistant gloves.
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
Respiratory protection	Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.

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General hygiene considerations

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When using, do not eat, drink or smoke. 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.

### 9. Physical and chemical properties

Appearan	се
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Physical state	Solid.		
Form	Solid		
Color	Not available.		
Odor	Not available.		
Odor threshold	Not available.		
рН	Not available.		
Melting point/freezing point	Not available.		
Initial boiling point and boiling range	Not available.		
Flash point	Not available.		
Evaporation rate	Not available.		
Flammability (solid, gas)	Not available.		
Upper/lower flammability or explosive limits			
Flammability limit - lower (%)	Not available.		
Flammability limit - upper (%)	Not available.		
Explosive limit - lower (%)	Not available.		
Explosive limit - upper (%)	Not available.		
Vapor pressure	Not available.		
Vapor density	Not available.		
Relative density	Not available.		
Solubility(ies)			
Solubility (water)	Not available.		
Partition coefficient (n-octanol/water)	Not available.		
Auto-ignition temperature	Not available.		
Decomposition temperature	Not available.		

#### Viscosity

Not available.

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Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Acids. Chlorine. Incompatibility is based strictly upon potential theoretical reactions between chemicals and may not be specific to industrial application exposure. Contact your sales representative for clarification.
Hazardous decomposition products	No hazardous decomposition products are known.

# 11. Toxicological information

#### Information on likely routes of exposure

Inhalation	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.	
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	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Coughing.	

#### Information on toxicological effects

Acute toxicity	Not available.
Skin corrosion/irritation	Causes severe skin burns and eye damage.
Serious eye damage/eye irritation	Causes serious eye damage.

#### Respiratory or skin sensitization

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<b>Respiratory sensitization</b>	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to cause skin sensitization.		
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	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.) 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. May cause cancer. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled.		
IARC Monographs. Overall	Evaluation of Carcinogenicity		
Quartz (SiO2) (CAS 1480	· · ·		
US. National Toxicology Pro	ogram (NTP) Report on Carcinogens		
Quartz (SiO2) (CAS 1480	,       •		
US. OSHA Specifically Reg	Ilated Substances (29 CFR 1910.1001-1050)		

Not listed.

#### Reproductive toxicity

Suspected of damaging fertility or the unborn child.

Developmental effects	
Quartz (SiO2)	0
Developmental effects -	EU category
Quartz (SiO2)	0
Embryotoxicity	
Quartz (SiO2)	0
Reproductivity	
Quartz (SiO2)	0
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

#### 12. Ecological information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

Disposal instructions	This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.
Hazardous waste code	Not applicable.
Waste from residues / unused products	Not available.
Contaminated packaging	Not available.

#### 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### ΙΑΤΑ

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

Transport in bulk according toNot applicable.Annex II of MARPOL 73/78 andthe 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. All chemical substances in this product are listed on the TSCA
chemical substance inventory where required.

# TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) TRADE SECRET (CAS Proprietary) 1.0 % One-Time Export Notification only.

CERCLA Hazardous Substance List (40 CFR 302.4)

Listed.

# Orthophosphoric Acid (CAS 7664-38-2) SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.

Superfund Amendments and Hazard categories	Reauthorization Act of 1986 (S Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No	SARA)		
SARA 302 Extremely haz Not listed.	ardous substance			
SARA 311/312 Hazardous chemical	s No			
SARA 313 (TRI reporting) Chemical name		CAS number	% by wt.	
Aluminium Oxide (Nor	-Fibrous)	1344-28-1	20 - 40	_
Other federal regulations			20 10	
-	on 112 Hazardous Air Polluta	nts (HAPs) List		
Not regulated. Clean Air Act (CAA) Sect	on 112(r) Accidental Release		68.130)	
Not regulated. Safe Drinking Water Act (SDWA)	Not regulated.			
US state regulations				
•	Substances. CA Department of	of Justice (California	a Health and Safety C	ode Section 11100)
Not listed.	•	,		,
US. Massachusetts RTK	Substance List			
Aluminium Oxide (Nor Orthophosphoric Acid Quartz (SiO2) (CAS 14 TRADE SECRET (CA	4808-60-7)			
	nd Community Right-to-Know	Act		
Aluminium Oxide (Nor Orthophosphoric Acid Quartz (SiO2) (CAS 14 TRADE SECRET (CAS	4808-60-7)			
	and Community Right-to-Kno	ow Law		
	4808-60-7)	0-2)		
Aluminium Oxide (Nor Orthophosphoric Acid	-Fibrous) (CAS 1344-28-1) (CAS 7664-38-2)			
•	a chemical known to the State of			
	sition 65 - CRT: Listed date/Ca	arcinogenic substar	nce	
Quartz (SiO2) (CA	S 14808-60-7)	Listed: October ?	I, 1988	
International Inventories				
Country(s) or region	Inventory name			On inventory (yes/no)*
Australia	Australian Inventory of Che		CS)	Yes
Canada	Domestic Substances List (			Yes
Canada	Non-Domestic Substances	. ,		No
China	Inventory of Existing Chemi			Yes
Europe	European Inventory of Exist Substances (EINECS)			No
Europe	European List of Notified Cl		, ,	No
Japan	Inventory of Existing and Ne		nces (ENCS)	No
Korea	Existing Chemicals List (EC	CL)		Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Ye \*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).

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

Issue date	11-03-2015
Version #	01
Disclaimer	This information is based on our present knowledge on creation date. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
Revision Information	Product and Company Identification: Product Codes Composition / Information on Ingredients: Ingredients Toxicological Information: Toxicological Data