SAFETY DATA SHEET



SECTION 1: Identification of the substance/mixture and of the company/undertaking

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1.1. Product identifier			
Trade name or	JADESHOT 50		
designation of the mixture			
Registration number	-		
Synonyms	None.		
Brand Code	7075		
Issue date	16-September-2016		
Version number	02		
Revision date	16-September-2016		
Supersedes date	16-September-2016		
1.2. Relevant identified uses of	of the substance or mixture ar	nd uses advised against	
Identified uses	For Industrial Use Only		
Uses advised against	None known.		
1.3. Details of the supplier of	the safety data sheet		
Supplier			
Company name	HarbisonWalker International		
Address	1305 Cherrington Parkway, Suite 100		
	Moon Township, PA 15108, USA		
	United States		
Division			
Telephone	General Phone:	412-375-6600	
	CHEMTREC 24 HOUR	1-800-424-9300	
	EMERGENCY # INTERNATIONAL #	1-703-527-3887	
		1-703-527-5007	
e-mail	REACH@thinkHWI.com HWI USA		
Contact person			
1.4. Emergency telephone number	Not available.		

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

This preparation does not meet the criteria for classification according to Directive 1999/45/EC as amended.

Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Hazard summary	
Physical hazards	Not classified for physical hazards.
Health hazards	Not classified for health hazards. However, occupational exposure to the mixture or substance(s) may cause adverse health effects.
Environmental hazards	Not classified for hazards to the environment.
Specific hazards	For additional information on inhalation hazards, see Section 11 of this safety data sheet.
Main symptoms	Dusts may irritate the respiratory tract, skin and eyes.
2.2. Label elements	
Label according to Regulation	(EC) No. 1272/2008 as amended
Contains:	Chromium (III) oxide
Hazard pictograms	None.
Signal word	None.
Hazard statements	The mixture does not meet the criteria for classification.

Observe good industrial hygiene practices.
Wash hands after handling.
Store away from incompatible materials.
Dispose of waste and residues in accordance with local authority requirements.
After installation and during service, exposure of this product to high temperature and/or certain chemical elements may cause a change to occur to this product and create chrome (VI) compounds. Therefore, during tear out, care should be taken in the removal and handling of this product. Exposure to chrome (VI) compounds may cause cancer. Excessive inhalation will increase the risk of serious respiratory damage. Limit contact with eyes, skin, and mucous membranes since chrome (VI) compounds are also corrosive and may cause skin and nasal septum ulcers. NIOSH approved respirators and protective clothing should be worn while handling this product during tear out.
None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name		%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Chromium (III) oxide		50 - < 60	1308-38-9 215-160-9	-	-	
Classification:	DSD:	-				
	CLP:	-				
Aluminium Oxide (Non-	Fibrous)	30 - < 40	1344-28-1 215-691-6	01-2119529248-35-0134	-	
Classification:	DSD:	-				
	CLP:	-				
Cement, Alumina, Cher	nicals	1 - < 3	65997-16-2 266-045-5	-	-	
Classification:	DSD:	-				
	CLP:	-				

Other components below reportable levels 5 - < 10

List of abbreviations and symbols that may be used above

CLP: Regulation No. 1272/2008. DSD: Directive 67/548/EEC. M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Community workplace exposure limit(s).

Composition comments

The full text for all R- and H-phrases is displayed in section 16.

SECTION 4: First aid measures

General information	Ensure that medical personnel are aware of the material(s) involved, and take precaution protect themselves.	ns to
4.1. Description of first aid me	asures	
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.	
Eye contact	Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persis	ts.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.	
4.2. Most important symptoms and effects, both acute and delayed	Dusts may irritate the respiratory tract, skin and eyes.	
4.3. Indication of any immediate medical attention and special treatment needed	Treat symptomatically.	
Material name: JADESHOT 50		SDS FR

SECTION 5: Firefighting measures

General fire hazards	Not available.	
5.1. Extinguishing media		
Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.	
Unsuitable extinguishing media	Not available.	
5.2. Special hazards arising from the substance or mixture	Not available.	
5.3. Advice for firefighters		
Special protective equipment for firefighters	Not available.	
Special fire fighting procedures	Not available.	
SECTION 6: Accidental release measures		

6.1. Personal precautions, protective equipment and emergency procedures

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For non-emergency personnelKeep unnecessary personnel away. Wear appropriate protective equipment clean-up. For personal protection, see section 8.		Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. For personal protection, see section 8.	
	For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.	
-	.2. Environmental recautions	Avoid discharge into drains, water courses or onto the ground.	
6.3. Methods and material for containment and cleaning up		Stop the flow of material, if this is without risk. Collect dust using a vacuum cleaner equipped with HEPA filter.	
		Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Avoid the generation of dusts during clean-up. Following product recovery, flush area	

container. Avoid the generation of dusts during clean-up. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. For personal protection, see section 8. For waste disposal, see section 13 of the SDS.

6.4. Reference to other sections

SECTION 7: Handling and storage

7.1. Precautions for safe handling	Minimise dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Avoid prolonged exposure. Practice good housekeeping.
7.2. Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).
7.3. Specific end use(s)	Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

France. Threshold Limit Valu	es (VLEP) for Occupational Expo	sure to Chemicals in France	e, INRS ED 984
Components	Туре	Value	Form

components	i ypc	Value		
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	VME	10 mg/m3		
Chromium (III) oxide (CAS 1308-38-9)	VME	2 mg/m3		
Magnesium oxide (CAS 1309-48-4)	VME	10 mg/m3	Fume.	
ological limit values	No biological exposure limits noted	for the ingredient(s).		
ecommended monitoring rocedures	Follow standard monitoring procedu	ires.		
erived no-effect level DNEL)	Not available.			

Predicted no effect concentrations (PNECs)	Not available.
8.2. Exposure controls 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. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL (occupational exposure limit), suitable respiratory protection must be worn. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits.
Individual protection measures	s, such as personal protective equipment
General information	Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection	
- Hand protection	Wear appropriate chemical resistant gloves.
- Other	Wear suitable protective clothing.
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.
Hygiene measures	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.
Environmental exposure controls	Environmental manager must be informed of all major releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
Physical state	Solid.
Form	Solid. Powder.
Colour	Not available.
Odour	Not available.
Odour threshold	Not available.
pH	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 ex	xplosive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Solubility (other)	Not available.

Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidizing properties	Not available.
9.2. Other information	No relevant additional information available.

SECTION 10: Stability and reactivity

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

SECTION 11: Toxicological information

General information	Occupational exposure to the substance or mixture may cause adverse effects.
Information on likely routes of exposure	
Inhalation	Dust may irritate respiratory system. Prolonged inhalation may be harmful.
Skin contact	Dust or powder may irritate the skin.
Eye contact	Dust may irritate the eyes.
Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
Symptoms	Dusts may irritate the respiratory tract, skin and eyes.
11.1. Information on toxicolog	ical effects
Acute toxicity	No data available.
Skin corrosion/irritation	Due to partial or complete lack of data the classification is not possible.
Serious eye damage/eye irritation	Due to partial or complete lack of data the classification is not possible.
Respiratory sensitisation	Due to partial or complete lack of data the classification is not possible.
Skin sensitisation	Due to partial or complete lack of data the classification is not possible.
Germ cell mutagenicity	Due to partial or complete lack of data the classification is not possible.
Carcinogenicity	Due to partial or complete lack of data the classification is not possible.
IARC Monographs. Overall Evaluation of Carcinogenicity	
Chromium (III) oxide (CA	S 1308-38-9) 3 Not classifiable as to carcinogenicity to humans.
Reproductive toxicity	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - single exposure	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - repeated exposure	Due to partial or complete lack of data the classification is not possible.
Aspiration hazard	Due to partial or complete lack of data the classification is not possible.
Mixture versus substance information	No information available.
Other information	This product has no known adverse effect on human health.
SECTION 12: Ecological information	
12.1. Toxicity	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.
12.2. Persistence and degradability	No data is available on the degradability of this product.

12.3. Bioaccumulative No data available.

potential Material name: JADESHOT 50

Partition coefficient n-octanol/water (log Kow)	Not available.
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	Not available.
12.6. 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.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste	As sold, this product is not RCRA hazardous. Final used condition must be evaluated prior to disposal. Dispose of waste product in accordance with Federal, State and Local regulations. The chrome compounds (Cr III) in this product may be altered to a hexavalent compound (Cr VI) under certain use conditions, such as exposure to alkali salts and/or high temperatures. Proper waste testing (such as TCLP)must be done to determine the waste status of used product. Reuse and recycling of chrome Refractories is recommended whenever possible.
Contaminated packaging	Not available.
EU waste code	Not available.

SECTION 14: Transport information

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ADN

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

14.7. Transport in bulkNot applicable.according to Annex II ofMARPOL 73/78 and the IBCCodeCode

SECTION 15: Regulatory information

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

EU regulations

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Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I Not listed.
Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II Not listed.
Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I Not listed.
Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 Not listed.
Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 Not listed.
Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 Not listed.
Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V Not listed.
Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry Chromium (III) oxide (CAS 1308-38-9)
Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.
uthorisations

Regulation (EC) No. 190 Not listed.	7/2006, REACH Annex XIV Substances subject to authorization, as amended
Restrictions on use	
Not regulated.	7/2006 Annex XVII Substances subject to restriction on marketing and use
Directive 2004/37/EC: o mutagens at work	n the protection of workers from the risks related to exposure to carcinogens and
Not listed. Directive 92/85/EEC: on are breastfeeding	the safety and health of pregnant workers and workers who have recently given birth or
Not listed.	
Other EU regulations	
Directive 96/82/EC (Sev	reso II) on the control of major-accident hazards involving dangerous substances
Not listed.	
Directive 98/24/EC on t agents at work	he protection of the health and safety of workers from the risks related to chemical
Not listed.	
Directive 94/33/EC on t	he protection of young people at work
Not listed.	
Other regulations	The product is classified and labelled in accordance with EC directives or respective national laws This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.
National regulations	Follow national regulation for work with chemical agents.
15.2. Chemical safety assessment	No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations References	Not available. Not available.
Information on evaluation method leading to the classification of mixture	Not available.
Full text of any statements or R-phrases and H-statements under Sections 2 to 15	None.
Revision information	Ecological Information: Ecotoxicity
Training information	Not available.
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.