HARRIS

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name Cherry Red Hardening Compound

Version # 01

Issue date 20-June-2013

Revision date Supersedes date -

CAS # Mixture

Manufacturer information

Manufacturer/Supplier Harris Products Group

4501 Quality Place Mason, Ohio 45040 US salesinfo@jwharris.com

Telephone number 513-754-2000

Emergency Telephone

1-866-519-4752 (US, Canada, Mexico only)

Numbers

(+) 1-760-476-3962 Please quote 333895

2. Hazards Identification

Physical state Solid.

AppearanceGray powder.Emergency overviewWARNING

Causes skin, eye and respiratory tract irritation.

OSHA regulatory status

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects

Routes of exposure Inhalation. Skin contact. Eye contact. Ingestion.

Eyes Causes eye irritation. Exposed individuals may experience eye tearing, redness, and discomfort.

Skin Causes skin irritation.

Inhalation Causes respiratory tract irritation. Symptoms may include coughing, difficulty breathing and

shortness of breath.

Ingestion May cause irritation of the gastrointestinal tract.

Target organs Respiratory system Eyes. Skin.

Chronic effects Prolonged skin contact may cause dermatitis.

Signs and symptoms Symptoms include nausea, vomiting, and diarrhea. Shortness of breath.

Potential environmental effects 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.

3. Composition / Information on Ingredients

Components	CAS#	Percent	
Potassium nitrate	7757-79-1	1 - 2.75	
Chromium oxide	1308-38-9	0 - 1.5	

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in

percent by volume.

4. First Aid Measures

First aid procedures

Eye contact Rinse immediately with plenty of water for at least 15 minutes. Remove any contact lenses. Get

medical attention.

Cherry Red Hardening Compound

Skin contact Remove contaminated clothes and rinse skin thoroughly with water for at least 15 minutes. Get

medical attention.

Inhalation Remove person from contaminated area to fresh air. Apply artificial respiration if needed. If

breathing is difficult, give oxygen. Call a physician if symptoms develop or persist.

Ingestion Do NOT induce vomiting. Immediately rinse mouth and drink a cupful of water. Never give anything

by mouth to an unconscious person. Get medical attention immediately.

Notes to physician Treat symptomatically.

General advice Show this safety data sheet to the doctor in attendance.

None known.

5. Fire Fighting Measures

Flammable properties

The product is non-combustible.

Extinguishing media

Suitable extinguishing

media

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media

Protection of firefighters

Specific hazards arising

from the chemical

During fire, gases hazardous to health may be formed.

Protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do it without risk.

6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. Avoid inhalation of dust from the spilled material. Wear

protective clothing as described in Section 8 of this MSDS. Do not touch damaged containers or

spilled material unless wearing appropriate protective clothing.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Methods for containment

Stop leak if you can do so without risk. Local authorities should be advised if significant spillages

cannot be contained.

Methods for cleaning up

Large Spills: Sweep up and place into a proper container for disposal. Avoid the generation of

dusts during clean-up.

Small Spills: Wipe up spilled material and place in a suitable container for disposal. For waste

disposal, see Section 13 of the MSDS.

Other information Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling Keep formation of airborne dusts to a minimum. Avoid inhalation of dust and fumes. Avoid contact

with skin and eyes. Wear appropriate personal protective equipment (See Section 8).

Storage Store in tightly closed original container in a dry, cool and well-ventilated place. Store in a closed

container away from incompatible materials. Keep away from food, drink and animal feedingstuffs.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Туре	Value	
Chromium oxide (CAS	TWA	0.5 mg/m3	
1200 20 0\			

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

Components	Type	Value	
Chromium oxide (CAS 1308-38-9)	PEL	0.5 mg/m3	

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Туре	Value	
Chromium oxide (CAS	TWA	0.5 mg/m3	
1308-38-9)			

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

 Components
 Type
 Value

 Chromium oxide (CAS
 TWA
 0.5 mg/m3

1308-38-9)

Mexico. Occupational Exposure Limit Values

ComponentsTypeValueChromium oxide (CAS 1308-38-9)TWA0.5 mg/m3

Engineering controlsProvide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of dust. Shower, hand and eye washing facilities near the workplace are recommended.

Personal protective equipment

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

Skin protection Wear chemical-resistant, impervious gloves. Chemical resistant clothing is recommended.

TLV. In a confined space a supplied respirator may be required. Selection and use of respiratory protective equipment should be in accordance with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4. Use a NIOSH/MSHA approved respirator if

there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

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.

9. Physical & Chemical Properties

Appearance Gray powder.

Physical state Solid. **Form** Powder. Color Gray green Odor Slight odor. **Odor threshold** Not available. Not available. Ηq Not available. Vapor pressure Not available. Vapor density **Boiling point** Not available. Not available. Melting point/Freezing point

Solubility (water) 45.24% cold water; 78.15% hot water.

Specific gravity 2.12

Flash point Not available.
Flammability limits in air, upper, % by volume

Not available.

Flammability limits in air,

lower, % by volume

Not available.

Auto-ignition temperature Not available.

10. Chemical Stability & Reactivity Information

Chemical stability Material is stable under normal conditions.

Conditions to avoid Moisture. Heat. Dust generation. Incompatible materials.

Incompatible materials Strong acids. Chlorine trifluoride. Magnesium.

Cherry Red Hardening Compound CPH MSDS NA

Hazardous decomposition

products

Carbon oxides. Potassium oxides.

Possibility of hazardous

reactions

Hazardous polymerization will not occur.

11. Toxicological Information

Toxicological data

Components **Species Test Results**

Potassium nitrate (CAS 7757-79-1)

Acute

Oral

LD50 Rabbit 1166 mg/kg Rat 3750 mg/kg

Sensitization Not a skin sensitizer.

Acute effects May cause irritation of the gastrointestinal tract. Local effects Irritating to eyes, respiratory system and skin. **Chronic effects** Prolonged skin contact may cause dermatitis. Carcinogenicity Not classifiable as to carcinogenicity to humans.

ACGIH Carcinogens

Chromium oxide (CAS 1308-38-9) A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

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

Epidemiology No data available. Mutagenicity No data available. Reproductive effects No data available.

No other specific acute or chronic health impact noted. **Further information**

12. Ecological Information

Ecotoxicological data

Test Results Components **Species**

Potassium nitrate (CAS 7757-79-1)

Aquatic

LC50 Fish Western mosquitofish (Gambusia affinis) 22.5 mg/l, 96 hours

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.

No data available for this product. **Environmental effects**

Persistence and degradability No data available.

Bioaccumulation / No data available on bioaccumulation.

Accumulation

Mobility in environmental No data available.

media

13. Disposal Considerations

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

disposal company.

Disposal instructions Dispose in accordance with all applicable regulations.

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

emptied.

14. Transport Information

DOT

Not regulated as a hazardous material by DOT.

IATA

Not regulated as dangerous goods.

CPH MSDS NA Cherry Red Hardening Compound

IMDG

Not regulated as dangerous goods.

TDG

Not regulated as dangerous goods.

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 components are on the U.S. EPA TSCA Inventory List.

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

Not regulated.

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

Chromium oxide (CAS 1308-38-9)

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

Chromium oxide (CAS 1308-38-9) 1.0 % N090 Potassium nitrate (CAS 7757-79-1) 1.0 % N511 US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance Chromium oxide (CAS 1308-38-9) N090 Listed. N511 Listed.

Potassium nitrate (CAS 7757-79-1) CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

Chromium oxide: 10

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

Section 302 extremely hazardous substance (40 CFR 355, Appendix A)

No

SARA 311/312 Hazardous chemical

Yes

Drug Enforcement

Administration (DEA) (21 CFR

1308.11-15)

Not controlled

Inventory name

Canadian regulations This product has been classified in accordance with the hazard criteria of the CPR and the MSDS

contains all the information required by the CPR.

WHMIS status Controlled

WHMIS classification D2B - Other Toxic Effects-TOXIC

WHMIS labeling



Inventory status

Country(s) or region

Australia	Australian Inventory of Chemical Substances (AICS)	Yes
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 Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes

Cherry Red Hardening Compound 914602 Version #: 01 Revision date: - Issue date: 20-June-2013 On inventory (yes/no)*

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

New Zealand New Zealand Inventory

Philippine Inventory of Chemicals and Chemical Substances **Philippines** Yes

(PICCS)

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

*A "Yes" indicates this product complies 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).

This product does not contain a chemical known to the State of California to cause cancer, birth State regulations

defects or other reproductive harm.

US - California Hazardous Substances (Director's): Listed substance

Chromium oxide (CAS 1308-38-9) Listed.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

US - New Jersey RTK - Substances: Listed substance

Chromium oxide (CAS 1308-38-9) Listed. Potassium nitrate (CAS 7757-79-1) Listed.

US. Massachusetts RTK - Substance List

Chromium oxide (CAS 1308-38-9) Listed. Potassium nitrate (CAS 7757-79-1) Listed.

US. New Jersey Worker and Community Right-to-Know Act

Chromium oxide (CAS 1308-38-9) 500 lbs Potassium nitrate (CAS 7757-79-1) 500 lbs

US. Pennsylvania RTK - Hazardous Substances

Chromium oxide (CAS 1308-38-9) Listed. Potassium nitrate (CAS 7757-79-1) Listed.

Mexico regulations This safety data sheet was prepared in accordance with the Official Mexican Standard

(NOM-018-STPS-2000).

16. Other Information

Further information HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings Health: 1*

> Flammability: 1 Physical hazard: 1

NFPA ratings Health: 1

> Flammability: 1 Instability: 1

Disclaimer The information in the sheet was written based on the best knowledge and experience currently

available.

CPH MSDS NA