

Material Safety Data Sheet



Date of issue 14 August 2009

Version 19

1. Product and company identification

Product name : Metal Conditioner
Code : DX520
Supplier : Refinish Products
19699 Progress Drive
Strongsville, OH 44149
Emergency telephone number : (412) 434-4515 (U.S.)
(514) 645-1320 (Canada)
01-800-00-21-400 (Mexico)
Technical Phone Number : (740) 363-9610 (DELAWARE, OH) 8:00 a.m. - 5:00 p.m. EST

2. Hazards identification

Emergency overview : DANGER!
HARMFUL OR FATAL IF SWALLOWED. CAUSES EYE AND SKIN BURNS. CAUSES RESPIRATORY TRACT IRRITATION. MAY CAUSE ALLERGIC RESPIRATORY REACTION. MAY BE HARMFUL IF INHALED. CONTAINS LEAD. DRIED FILM OF THIS PAINT MAY BE HARMFUL IF EATEN OR CHEWED. SANDING AND GRINDING DUSTS MAY BE HARMFUL IF INHALED. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA. CANCER HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE CANCER. Add this product only to water. Never add water to this product.

Do not breathe vapor or mist. Do not swallow. Do not get in eyes or on skin or clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

Potential acute health effects

Inhalation : May be harmful if inhaled. Irritating to respiratory system. Can irritate eyes, nose, mouth and throat. May cause sensitization by inhalation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Ingestion : Harmful or fatal if swallowed. May cause burns to mouth, throat and stomach.
Skin : Corrosive to the skin. Causes burns.
Eyes : Corrosive to eyes. Causes burns.

Over-exposure signs/symptoms

Inhalation : Adverse symptoms may include the following:
respiratory tract irritation
coughing
wheezing and breathing difficulties
asthma
Ingestion : Adverse symptoms may include the following:
stomach pains
Skin : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
Eyes : Adverse symptoms may include the following:
pain
watering
redness

2. Hazards identification

Contains Lead. Lead poisoning is characterized by a metallic taste in the mouth, loss of appetite, indigestion, nausea, vomiting, constipation, abdominal cramps, disturbance of rest and sleep and weakness. Dryness, itching, cracking, burning, redness and swelling are conditions associated with excessive skin contact. Exposure to lead dust and fumes adversely affects blood and blood forming tissues, kidneys, liver, the central/peripheral nervous systems and male/female reproductive organs. Lead exposure causes adverse developmental effects including brain damage in children and unborn fetuses.

Medical conditions aggravated by over-exposure : Pre-existing respiratory disorders and disorders involving any other target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

This Material Safety Data Sheet has been prepared in accordance with Canada's Workplace Hazardous Materials Information System (WHMIS) and the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See toxicological information (section 11)

3. Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>%</u>
phosphoric acid	7664-38-2	7 - 13
zinc oxide	1314-13-2	1 - 5
sodium hydroxide	1310-73-2	1 - 5
sodium 3-nitrobenzenesulphonate	127-68-4	0.5 - 1.5
nickel dinitrate	13138-45-9	0.1 - 1
lead	7439-92-1	< 0.1

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use solvents or thinners.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Ingestion** : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do not induce vomiting.
- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

5. Fire-fighting measures

Flammability of the product : In a fire or if heated, a pressure increase will occur and the container may burst. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

Extinguishing media

- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Special exposure hazards** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

5 . Fire-fighting measures

Hazardous combustion products : Decomposition products may include the following materials:
carbon oxides
nitrogen oxides
sulfur oxides
oxides of lead
phosphorus oxides
metal oxide/oxides

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6 . Accidental release measures

Personal precautions : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Large spill : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

7 . Handling and storage

Handling : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not breathe vapor or mist. Do not swallow. Do not get in eyes or on skin or clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Vapors are heavier than air and may spread along floors. Add this product only to water. Never add water to this product. Empty containers retain product residue and can be hazardous. Do not apply on toys and other children's articles, furniture, or interior surfaces of any dwelling or facility which may be occupied or used by children. Do not apply on exterior surfaces of dwelling units, such as window sills, porches, stairs, or railings, to which children may be commonly exposed. Do not reuse container.

Storage : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Do not store above the following temperature: 120F / 49C.

8. Exposure controls/personal protection

Name	Result	ACGIH	OSHA	Ontario	Mexico	PPG
phosphoric acid	TWA	1 mg/m ³	1 mg/m ³	1 mg/m ³	1 mg/m ³	Not established
	STEL	3 mg/m ³	Not established	3 mg/m ³	3 mg/m ³	Not established
zinc oxide	TWA	2 mg/m ³	5 mg/m ³ F 5 mg/m ³ R 15 mg/m ³ TD	2 mg/m ³ R TD	10 mg/m ³ 5 mg/m ³	Not established
	STEL	10 mg/m ³	Not established	10 mg/m ³ R TD	10 mg/m ³	Not established
sodium hydroxide	TWA	Not established	2 mg/m ³	Not established	Not established	Not established
	STEL	2 mg/m ³ C	Not established	2 mg/m ³ C	2 mg/m ³ C	Not established
nickel dinitrate	TWA	0.1 mg/m ³ (as Ni) 0.1 MG/M3 TD	1 mg/m ³ (as Ni) 0.1 mg/m ³ (as Ni)	0.1 mg/m ³ (as Ni) TD	0.1 mg/m ³ (as Ni)	Not established
	STEL	Not established	Not established	Not established	0.3 mg/m ³ (as Ni)	Not established
lead	TWA	0.05 mg/m ³ (as Pb)	50 ug/m ³ (as Pb) 50 ug/m ³	Not established	Not established	Not established

Key to abbreviations

A = Acceptable Maximum Peak	S = Potential skin absorption
ACGIH = American Conference of Governmental Industrial Hygienists.	SR = Respiratory sensitization
C = Ceiling Limit	SS = Skin sensitization
F = Fume	TD = Total dust
IPEL = Internal Permissible Exposure Limit	TLV = Threshold Limit Value
OSHA = Occupational Safety and Health Administration.	TWA = Time Weighted Average
R = Respirable	Z = OSHA 29CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Engineering measures : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Eyes : Chemical splash goggles and face shield.

Hands : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Gloves : nitrile, neoprene

8 . Exposure controls/personal protection

- Respiratory** : By spraying: air-fed respirator. By other operations than spraying, in well ventilated areas, air-fed respirators could be replaced by a combination charcoal filter and particulate filter mask. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9 . Physical and chemical properties

- Physical state** : Liquid.
- Flash point** : Closed cup: >93.33°C (>200°F)
- Color** : Not available.
- Odor** : Not available.
- pH** : Not available.
- Boiling/condensation point** : 37.22 to 37.22°C (99 to 99°F)
- Melting/freezing point** : Not available.
- Specific gravity** : 1.1
- Density (lbs / gal)** : 9.18
- Vapor pressure** : 2.3 kPa (17.5 mm Hg)
- Vapor density** : Not available.
- Volatility** : 90% (v/v), 82.77% (w/w)
- Odor threshold** : Not available.
- Evaporation rate** : 36 (butyl acetate = 1)
- Octanol/water partition coefficient** : Not available.
- % Solid. (w/w)** : 17.23

10 . Stability and reactivity

- Stability** : The product may not be stable under certain conditions of storage or use.
- Conditions to avoid** : No specific data.
- Materials to avoid** : Reactive or incompatible with the following materials: acids
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Hazardous polymerization** : Under normal conditions of storage and use, hazardous polymerization will not occur.

11 . Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure

11 . Toxicological information

phosphoric acid	LD50 Oral	Rat	1.25 g/kg	-
	LD50 Dermal	Rabbit	2.74 g/kg	-
sodium hydroxide	LD50 Oral	Rat	0.24 g/kg	-
sodium 3-nitrobenzenesulphonate	LD50 Oral	Rat	11 g/kg	-
nickel dinitrate	LD50 Oral	Rat	1018 mg/kg	-

Conclusion/Summary : Not available.

Chronic toxicity

Conclusion/Summary : Not available.

Target organs

: Contains material which may cause damage to the following organs: lungs, upper respiratory tract, skin, eyes.

Carcinogenicity

Conclusion/Summary : Not available.

Carcinogenicity

: Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure.

Classification

Product/ingredient name

	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
zinc oxide	A4	-	-	-	-	-
nickel dinitrate	A4	1	-	+	Proven.	-

Mutagenicity

Conclusion/Summary : Not available.

Mutagenicity

: No known significant effects or critical hazards.

Teratogenicity

Conclusion/Summary : Not available.

Teratogenicity

: No known significant effects or critical hazards.

Reproductive toxicity

Conclusion/Summary : Not available.

Developmental effects

: No known significant effects or critical hazards.

Fertility effects

: No known significant effects or critical hazards.

12 . Ecological information

Environmental effects : No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
zinc oxide	Acute LC50 1.1 to 2.5 ppm Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss	96 hours
	Acute LC50 98 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
sodium hydroxide	Acute LC50 196 mg/L Marine water	Fish - Guppy - Poecilia reticulata	96 hours
	Chronic NOEC 56 mg/L Marine water	Fish - Guppy - Poecilia reticulata	96 hours
sodium 3-nitrobenzenesulphonate	Acute LC50 8665000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
nickel dinitrate	Acute LC50 10600 ug/L Fresh water	Fish - common carp - Cyprinus carpio	96 hours
	Acute LC50 915 to 1070 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
lead	Acute LC50 0.44 ppm Fresh water	Fish - common carp - Cyprinus carpio	96 hours

12 . Ecological information

	Acute LC50 4400 to 5300 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours

13 . Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

14 . Transport information

Regulation	UN number	Proper shipping name	Classes	PG*	Additional information
UN	3264	CORROSIVE LIQUID ACIDIC INORGANIC N.O.S. (phosphoric acid, nickel dinitrate)	8	II	-
IMDG	3264	CORROSIVE LIQUID ACIDIC INORGANIC N.O.S. (phosphoric acid, nickel dinitrate)	8	II	-
DOT	3264	CORROSIVE LIQUID ACIDIC INORGANIC N.O.S. (phosphoric acid, nickel dinitrate)	8	II	-

PG* : Packing group

Reportable quantity RQ : CERCLA: Hazardous substances.: sodium hydroxide: 1000 lbs. (454 kg); phosphoric acid: 5000 lbs. (2270 kg); zinc oxide;

15 . Regulatory information

United States inventory (TSCA 8b) : All components are listed or exempted.

Australia inventory (AICS) : Not determined.

Canada inventory : All components are listed or exempted.

China inventory (IECSC) : All components are listed or exempted.

Europe inventory : All components are listed or exempted.

Japan inventory (ENCS) : Not determined.

Korea inventory (KECI) : Not determined.

New Zealand : All components are listed or exempted.

Philippines inventory (PICCS) : Not determined.

United States

U.S. Federal regulations : TSCA 12(b) annual export notification: No products were found.
 TSCA 12(b) one-time export: No products were found.

15 . Regulatory information

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: sodium hydroxide; phosphoric acid; sodium 3-nitrobenzenesulphonate; zinc oxide

SARA 311/312 MSDS distribution - chemical inventory - hazard identification:

sodium hydroxide: Immediate (acute) health hazard; phosphoric acid: Immediate (acute) health hazard; sodium 3-nitrobenzenesulphonate: Immediate (acute) health hazard; zinc oxide: Immediate (acute) health hazard, Delayed (chronic) health hazard

CERCLA: Hazardous substances.: sodium hydroxide: 1000 lbs. (454 kg); phosphoric acid: 5000 lbs. (2270 kg); zinc oxide;

SARA 313

Form R - Reporting requirements

Product name

: zinc oxide
nickel dinitrate

CAS number

1314-13-2
13138-45-9

Concentration

1 - 5
0.1 - 1

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Canada

WHMIS (Canada)

: Class E: Corrosive liquid. Class D-1B: Material causing immediate and serious toxic effects (Toxic). Class D-2A: Material causing other toxic effects (Very toxic). Class D-2B: Material causing other toxic effects (Toxic).

Mexico

Classification

Flammability : 1 Health : 3 Reactivity : 1

16 . Other information

Hazardous Material Information System (U.S.A.)

Health : 3 * Flammability : 1 Physical hazards : 1

(*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

Health : 3 Flammability : 1 Instability : 1

Date of previous issue : No previous validation.

Organization that prepared the MSDS : EHS

☑ Indicates information that has changed from previously issued version.

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.