



Material Safety Data Sheet

Duraphos 501

MANUFACTURER:

German Metal Surface Treatment Chemicals Co. (SUGEST)

P.O. Box 2951, Riyadh 11461, K.S.A.

Tel: (00966) (011) 4647711 (20 Lines)

Fax: (00966) (011) 2170866

1. Product and Company Identification

NAME Duraphos 501

USE Used as Cleaner, degreaser and iron phosphate the steel.

LABEL Duraphos 501

Company German Metal Surface Treatment Chemicals Co.

2. Description:

Duraphos 501 is a powder blend of inorganic phosphate.

3. Chemical Composition

| Ingredient | CAS No | Percent by weight |
|-----------------------|---------------|--------------------------|
| Mono Sodium Phosphate | 7558-80-7 | 15-40 |
| Surfactant | property | 2 - 5 |

4. Application

Duraphos 501 develops fine, smooth, and uniform bluish color amorphous layer for durable bonding with final finish.

Duraphos 501 can treat substrates like Iron, Steel, Zinc and Aluminum.

5. Physical & Chemical Properties

| | |
|------------------------|-----------|
| Appearance | Powder |
| Color | White. |
| PH (1%) at 25 °C | 3.4 ± 0.2 |
| Total Acid Points (1%) | 3.1±0.3 |
| Solubility in water | Soluble |



Material Safety Data Sheet

6. Hazards Identification

This product is an irritant to eye and skin (Corrosive, Harmful)

Emergency Overview

Chemical material cause irritant to eye and skin at concentrated liquid

Potential Health Effects

Inhalation:

Harmful or fatal if swelled.

Skin Contact:

Irritant will cause permanent skin damage, may cause sensitization by skin contact,

Eye Contact:

Causes irritation, and pain. Contact may cause tissue eye damage.

Chronic Exposure:

Not available.

7. First Aid Measures

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

Skin Contact:

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Wash clothing before reuse, clean shoes before reuse. Get medical attention immediately.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

8. Fire Fighting Measures

Fire:

This product is non – combustible

Explosion:

Not considered to be an explosion hazard.

Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire.(flood with water).

Special information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.



Material Safety Data Sheet

9. Accidental Release Measures

A- Release note:

Dilute with large volume of water

B- Environmental precaution

Residual **Duraphos 501** are transferred to new empty can for the second use under restricted condition.

10. Storage Information

| | |
|-------------------------------|--|
| Storage & Handling | Keep bags tightly closed. Keep bags in a cool, well-ventilated area. Do not expose to direct sun. Stable nonflammable product. Avoid store near alkaline, alcoholic, reducing materials Store in temperature not above 40°C. Observe all warnings and precautions listed for the product. Duraphos 501 is stored only in vented containers and transferred only in a prescribed manner and never return unused Duraphos 501 to original bag. |
| Shelf Life | Two years from date of production if stored in normal condition. |

11. Exposure Controls/Personal Protection

Exposure control avoid eye and skin contact.

Personal protection wears gloves, goggles and overalls when handling the material.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, a Manual of Recommended Practices*, most recent edition, for details.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. (Neoprene, polyvinyl chloride).

Eye Protection:

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

12. Stability and Reactivity

Stability:

Stable at normal condition.

Reactivity Data

STABILITY: Stable under normal conditions

Hazardous Polymerization: will not occur

Avoid mix with strong alkaline and Do not mix this chemical or solutions of this chemical with hydrochloric acid. Keep away from organic and combustible materials.



Material Safety Data Sheet

13. Disposal Considerations

Disposal method: Undiluted product is regulated under environmental and transportation laws as corrosive and harmful. Disposal according to all laws, local and global authorities for restrictions on disposal of chemical waste, manage chemical, waste through an approved waste treatment facility, do not reuse empty container, rinse empty container with water before discarding, container in accordance with current local community codes please recycle empty container whenever possible

14. Transport information

Non Hazardous

15. Other Information

Label Hazard Warning:

WARNING! HARMFUL IF SWALLOWED OR INHALED.

Label Precautions:

Avoid contact with eyes, skin and clothing.
Avoid breathing fume.
Keep container closed.
Use only with adequate ventilation.
Wash thoroughly after handling.

Label First Aid:

If swallowed, induce vomiting immediately as directed by medical personnel. Give milk or water. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, wipe off excess material from skin then immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. In all cases, get medical attention.

16. Packing Type:

Duraphos 501 is packed in woven polypropylene lined bags.

Duraphos 501 is available in 25 kg bag.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.