



Allied Pressroom Products
Chemicals for the International Printing Industry

SAFETY DATA SHEET SYSTEMS KLEENER POWDER - STEP 1 (USA)

1. Identification

Product identifier

Product name SYSTEMS KLEENER POWDER - STEP 1 (USA)

Recommended use of the chemical and restrictions on use

Application For use as a fountain tank cleaner in the lithographic printing industry. Fountain tank cleaner.

Uses advised against No specific uses advised against are identified.

Details of the supplier of the safety data sheet

Supplier ALLIED PRESSROOM PRODUCTS
2040 Lee Street
Hollywood
FL 33020
USA
+1 800-327-8487 (09:00-17:00 EST)
+1 954-923-6462
info@alliedchem.com

Manufacturer Same as supplier

Emergency telephone number

Emergency telephone 24 HR. EMERGENCY TELEPHONE 800-424-9300 CHEMTREC Allied Pressroom Products
+1 800-327-8487 (09:00-17:00 EST)

National emergency telephone number 911

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Met. Corr. 1 - H290
Health hazards Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT SE 3 - H335
Environmental hazards Not Classified

Human health Corrosive. Prolonged contact causes serious eye and tissue damage. Dust in high concentrations may irritate the respiratory system.

Physicochemical May be corrosive to metals.

Label elements

Pictogram



Signal word Danger

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Hazard statements	H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation.
Precautionary statements	P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a poison center/doctor. P390 Absorb spillage to prevent material damage. P260 Do not breathe dust/fume/gas/mist/vapors/spray.
Contains	DISODIUM METASILICATE

Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

3. Composition/information on ingredients

4. First-aid measures

Description of first aid measures

Inhalation	Move affected person to fresh air at once. Get medical attention immediately. Keep affected person warm and at rest.
Ingestion	Get medical attention immediately. Rinse mouth thoroughly with water. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Do not induce vomiting. Never give anything by mouth to an unconscious person.
Skin Contact	Remove affected person from source of contamination. Get medical attention promptly if symptoms occur after washing.
Eye contact	Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes and get medical attention.

Most important symptoms and effects, both acute and delayed

Inhalation	Upper respiratory irritation.
Ingestion	Chemical burns.
Skin contact	Chemical burns.
Eye contact	Irritation, burning, lachrymation, blurred vision after liquid splash.

Indication of immediate medical attention and special treatment needed

Notes for the doctor	No specific recommendations.
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5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.
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Special hazards arising from the substance or mixture

Specific hazards	No unusual fire or explosion hazards noted.
Hazardous combustion products	Toxic and corrosive gases or vapors.

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Advice for firefighters

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground.

Methods and material for containment and cleaning up

Methods for cleaning up Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Flush contaminated area with plenty of water. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Do not touch or walk into spilled material. Collect and place in suitable waste disposal containers and seal securely.

Reference to other sections For waste disposal, see Section 13.

7. Handling and storage

Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with skin, eyes and clothing. Avoid inhalation of dust. May be corrosive to metals.

Conditions for safe storage, including any incompatibilities

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

Storage class Corrosive storage.

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

8. Exposure Controls/personal protection

Ingredient comments When using sodium metasilicate it is recommended that exposure to alkalinity calculated as NaOH should be kept below this limit. SUP = Supplier's recommendation.

Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Wear tight-fitting, dust-resistant, chemical splash goggles if airborne dust is generated. Tight-fitting safety glasses.

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Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Rubber or plastic. Wear protective gloves made of the following material:
Other skin and body protection	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene measures	Provide eyewash station. Wash hands at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.
Respiratory protection	No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Dust generation is unlikely as decanting is unnecessary (water is added straight into the bottle containing this powder).

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Dusty powder.
Color	White.
Odor	No characteristic odor.
Odor threshold	No information available.
pH	pH (diluted solution): 13.2 @ 25%
Melting point	No information available.
Initial boiling point and range	Not applicable.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Upper/lower flammability or explosive limits	No information available.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	Not applicable.
Bulk density	800 kg/m ³
Solubility(ies)	Soluble in water.
Partition coefficient	No information available.
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
Viscosity	Not applicable.
Oxidising properties	The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidizing.
Comments	Information declared as "Not available" or "Not applicable" is not considered to be relevant to the implementation of the proper control measures.
Volatile organic compound	This product contains a maximum VOC content of 0 g/litre.

10. Stability and reactivity

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Reactivity	Reactions with the following materials may generate heat: Strong acids. In contact with some metals can generate hydrogen gas, which can form explosive mixtures with air.
Stability	Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions	Will not polymerize.
Conditions to avoid	In contact with some metals can generate hydrogen gas, which can form explosive mixtures with air.
Materials to avoid	Strong oxidizing agents. Strong acids. Aluminum. Alkali sensitive metals or alloys
Hazardous decomposition products	Toxic and corrosive gases or vapors. Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO ₂). Hydrogen. Sulfurous gases (SO _x). Oxides of phosphorus. Sodium Oxides

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Animal data Corrosive to skin.

Serious eye damage/irritation

Serious eye damage/irritation Corrosive to skin. Corrosivity to eyes is assumed.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Does not contain any substances known to be mutagenic.

Carcinogenicity

Carcinogenicity Does not contain any substances known to be carcinogenic.

Reproductive toxicity

Reproductive toxicity - fertility Does not contain any substances known to be toxic to reproduction.

Reproductive toxicity - development Does not contain any substances known to be toxic to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure A single exposure may cause the following adverse effects: High concentrations may cause severe lung damage.

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Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard Not anticipated to present an aspiration hazard, based on chemical structure.

Inhalation Dust in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing. Once diluted this product is no longer classified for inhalation effects.

Ingestion Harmful if swallowed. May cause chemical burns in mouth and throat.

Skin Contact Causes burns.

Eye contact This product is strongly corrosive. Causes severe burns. Immediate first aid is imperative.

Route of entry Inhalation Skin and/or eye contact Ingestion.

Target Organs Respiratory system, lungs Skin Eyes

Medical Symptoms Chemical burns. Irritation of nose, throat and airway.

12. Ecological Information

Ecotoxicity The product components are not classified as environmentally hazardous. The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms. However, large or frequent spills may have hazardous effects on the environment.

Toxicity

Acute toxicity - fish Not known.

Acute toxicity - aquatic invertebrates Not known.

Acute toxicity - aquatic plants Not known.

Persistence and degradability

Persistence and degradability This cleaning preparation does not contain any surfactants. There are no data on the degradability of this product.

Bioaccumulative potential

Bio-Accumulative Potential No data available on bioaccumulation.

Partition coefficient No information available.

Mobility in soil

Mobility The product is soluble in water.

Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

Other adverse effects

Other adverse effects Not known.

13. Disposal considerations

Waste treatment methods

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General information	When handling waste, the safety precautions applying to handling of the product should be considered.
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

14. Transport information

UN Number

UN No. (DOT) 3262

UN No. (IMDG) 3262

UN No. (ICAO) 3262

UN proper shipping name

Proper shipping name (DOT) CORROSIVE SOLID, NOS (Contains Sodium Metasilicate)

Proper shipping name (IMDG) CORROSIVE SOLID, NOS (Contains Sodium Metasilicate)

Proper shipping name (ICAO) CORROSIVE SOLID, NOS (Contains Sodium Metasilicate)

Transport hazard class(es)

IMDG Class 8

ICAO class/division 8

Transport labels



Packing group

DOT pack group III

IMDG packing group III

ICAO packing group III

Environmental hazards

Environmentally Hazardous Substance

No.

Special precautions for user

EmS F-A,S-E

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities
Not listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

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Not listed.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

Not listed.

SARA 313 Emission Reporting

Not listed.

CAA Accidental Release Prevention

Not listed.

FDA - Essential Chemical

Not listed.

FDA - Precursor Chemical

Not listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

Not listed.

California Air Toxics "Hot Spots" (A-I)

Not listed.

California Air Toxics "Hot Spots" (A-II)

Not listed.

California Directors List of Hazardous Substances

pentasodium triphosphate

30-60%

Massachusetts "Right To Know" List

pentasodium triphosphate

30-60%

SODIUM SULPHATE

1-5%

Rhode Island "Right To Know" List

Not listed.

Minnesota "Right To Know" List

Not listed.

New Jersey "Right To Know" List

Not listed.

Pennsylvania "Right To Know" List

pentasodium triphosphate

30-60%

SODIUM SULPHATE

1-5%

Inventories

Canada - DSL/NDL

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All the ingredients are listed or exempt.
DSL
NDSL

US - TSCA

All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification

Not listed.

16. Other information

Key literature references and sources for data Material Safety Data Sheet, Misc. manufacturers.

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.

Issued by J Waterfield

Revision date 2/5/2015

Revision 2.0

Supersedes date 1/1/2009

SDS No. 21103

Hazard statements in full
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

ACA HMIS Health rating. Slight hazard. (1)

ACA HMIS Physical hazard rating. Normally stable. (0)

ACA HMIS Personal protection rating. C

ACA HMIS Flammability rating. Will not burn. (0)

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.