

# SAFETY DATA SHEET

225S v8.0  
en/US



## 1. Identification of the substance/mixture and of the company/undertaking

<b>Product name</b>	Aluminum Cleaner Step A	
<b>Product code</b>	225S	Formula date: 2012-06-25
<b>Intended use</b>	Cleaning agent for professional use	
	Axalta Coating Systems, LLC Applied Corporate Center 50 Applied Bank Boulevard, Suite 300 US Glen Mills, PA 19342	
<b>Telephone</b>	Product information	(855) 6-AXALTA
	Medical emergency	(855) 274-5698
	Transportation emergency	(800) 424-9300 (CHEMTREC)

## 2. Hazards identification

This preparation is hazardous per the following GHS criteria

### GHS-Classification

Skin corrosion/irritation	Category 1B
Serious eye damage/eye irritation	Category 1
Germ cell mutagenicity	Category 2
Toxicity for reproduction	Category 2
Target Organ Systemic Toxicant - Single exposure	Category 2
Corrosive to metals	Category 1

### GHS-Labeling

Hazard symbols



Signal word: Danger

Hazard statements

- May be corrosive to metals.
- Causes severe skin burns and eye damage.
- Causes serious eye damage.
- Suspected of causing genetic defects.
- Suspected of damaging fertility or the unborn child.
- May cause damage to organs.

Precautionary statements

- Obtain special instructions before use.
- Keep only in original container.
- Wash hands after handling.
- Do not eat, drink or smoke when using this product.
- Avoid release to the environment.
- Wear eye protection/ face protection.
- Wear protective gloves/ protective clothing.
- IF SWALLOWED: Immediately call a POISON CENTER/doctor.
- IF ON SKIN: Wash with plenty of soap and water.

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IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF exposed or concerned: Get medical advice/ attention.  
Wash contaminated clothing before reuse.  
Absorb spillage to prevent material damage.  
Store locked up.  
Store in corrosive resistant/ .? container with a resistant inner liner.  
Dispose of contents/container in accordance with local regulations.

### Other hazards which do not result in classification

Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

### The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity:

0 %

## 3. Composition/information on ingredients

mixture of solvents

### Components

CAS-No.	Chemical name	Concentration
7664-38-2	Phosphoric acid	15 - 26%
111-76-2	Ethylene glycol monobutyl ether	14%
9036-19-5	Octylphenoxy polyethoxy ethanol	1 - 4%
7789-23-3	Potassium fluoride	1 - 4%

Any concentration shown as a range is due to batch variation.

Non-regulated ingredients 50 - 60%

OSHA Hazardous: Yes

## 4. First aid measures

### Eye contact

Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

### Skin contact

Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

### Inhalation

Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

### Ingestion

If swallowed, seek medical advice immediately and show this safety data sheet (SDS) or product label. Do NOT induce vomiting. Keep at rest.

### Most Important Symptoms/effects, acute and delayed

#### Inhalation

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May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

### Ingestion

May result in gastrointestinal distress.

### Skin or eye contact

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

### Indication of Immediate medical attention and special treatment needed if necessary

No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

## 5. Firefighting measures

### Suitable extinguishing media

Universal aqueous film-forming foam, Carbon dioxide (CO<sub>2</sub>), Dry chemical

### Extinguishing media which shall not be used for safety reasons

High volume water jet

### Hazardous combustion products

CO, CO<sub>2</sub>, smoke, and oxides of any heavy metals that are reported in "Composition, Information on Ingredients" section.

### Fire and Explosion Hazards

Avoid heating above flash point.

### Special Protective Equipment and Fire Fighting Procedures

Full protective flameproof clothing should be worn as appropriate. Wear self-contained breathing apparatus for firefighting if necessary. In the event of fire, cool tanks with water spray. Do not allow run-off from fire fighting to enter public sewer systems or public waterways.

## 6. Accidental release measures

### Procedures for cleaning up spills or leaks

Ventilate area. If heated above the flashpoint, remove sources of ignition. Prevent skin and eye contact and breathing of vapor. Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C), eye protection, gloves and protective clothing. Confine, remove with inert absorbent, and dispose of properly.

### Environmental precautions

Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

## 7. Handling and storage

### Precautions for safe handling

Observe label precautions. Close container after each use. If heated above its flash point, this must be handled as if it were a flammable liquid. Do not transfer contents to bottles or unlabeled containers. Wash thoroughly after handling and before eating or smoking. Do not freeze. If material is a coating: do not sand, flame cut, braze or weld dry coating without a NIOSH approved air purifying respirator with particulate filters or appropriate ventilation, and gloves. Combustible dust clouds may be created where operations produce fine material (dust). Avoid formation of significant deposits of material as they may become airborne and form combustible dust clouds. Build up of fine material should be cleaned using gentle sweeping or vacuuming in accordance with best practices. Cleaning methods (e.g. compressed air) which can generate potentially combustible dust clouds should not be used.

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### Advice on protection against fire and explosion

Solvent vapours are heavier than air and may spread along floors. Vapors may form explosive mixtures with air and will burn when an ignition source is present. Always keep in containers of same material as the original one. Never use pressure to empty container: container is not a pressure vessel. The accumulation of contaminated rags may result in spontaneous combustion. Good housekeeping standards and regular safe removal of waste materials will minimize the risks of spontaneous combustion and other fire hazards.

### Storage

#### Requirements for storage areas and containers

Observe label precautions. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

#### Advice on common storage

Store separately from oxidizing agents and strongly alkaline and strongly acidic materials.

OSHA/NFPA Storage Classification: IIIB

## 8. Exposure controls/personal protection

### Engineering controls and work practices

Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

### National occupational exposure limits

CAS-No.	Chemical name	Source	Time	Type	Value	Note
7664-38-2	Phosphoric acid	ACGIH	15 min	STEL	3 mg/m <sup>3</sup>	
		ACGIH	8 hr	TWA	1 mg/m <sup>3</sup>	
		OSHA	8 hr	TWA	1 mg/m <sup>3</sup>	
		Dupont	15 min	TWA	3 mg/m <sup>3</sup>	
		Dupont	8 & 12 hour	TWA	1 mg/m <sup>3</sup>	
111-76-2	Ethylene glycol monobutyl ether	OSHA	8 hr	TWA	50 ppm	Skin
		Dupont	8 & 12 hour	TWA	20 ppm	
7789-23-3	Potassium fluoride	ACGIH	8 hr	TWA	2.5 mg/m <sup>3</sup>	as fluorine

### Glossary

CEIL	Ceiling exposure limit
STEL	Short term exposure limit
TL	Threshold limits
TLV	Threshold Limit Value
TWA	Time weighted average
TWAE	Time-Weighted Average

### Protective equipment

Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

### Respiratory protection

Do not breathe vapors or mists. Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C) and particulate filter (NIOSH TC-84A) during application and until all vapors and spray mists are exhausted. In confined spaces, or in situations where continuous spray operations are typical, or if proper air-purifying respirator fit is not possible, wear a positive pressure, supplied-air respirator (NIOSH TC-19C). In all cases, follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area.

### Eye protection

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Desirable in all industrial situations. Goggles are preferred to prevent eye irritation. If safety glasses are substituted, include splash guard or side shields.

### Skin and body protection

Neoprene gloves and coveralls are recommended.

### Hygiene measures

Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.

### Environmental exposure controls

Do not let product enter drains.

For ecological information, refer to Ecological Information Section 12.

## 9. Physical and chemical properties

### Appearance

**Form:** liquid      **Colour:**      **Odour:** Characteristic Paint Odor

Flash point	> 200 °F	
Lower Explosive Limit	1.1 %	
Upper Explosive Limit	10.6 %	
Evaporation rate	Slower than Ether	
Vapor pressure of principal solvent	0.2 hPa	
Water solubility	completely miscible	
Vapor density of principal solvent (Air = 1)	0.6	
Approx. Boiling Range	100 °C	
Approx. Freezing Range	-70 – 21 °C	
Gallon Weight (lbs/gal)	9.33	
Specific Gravity	1.12	
Percent Volatile By Volume	84.26%	
Percent Volatile By Weight	73.66%	
Percent Solids By Volume	15.74%	
Percent Solids By Weight	26.34%	
pH (waterborne systems only)	No data available.	
Partition coefficient: n-octanol/water	No data available	
Ignition temperature	224 °C	DIN 51794
Decomposition temperature	Not applicable.	
Viscosity (23 °C)	Not applicable.	ISO 2431-1993
VOC* less exempt (lbs/gal)	3.9	
VOC* as packaged (lbs/gal)	1.3	

Does not sustain combustion.

\* VOC less exempt (theoretical) and VOC as packaged (theoretical) are based upon the VOC of the packaged material at the point of manufacture.

## 10. Stability and reactivity

### Stability

Stable

### Conditions to avoid

Stable under recommended storage and handling conditions (see section 7).

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### Materials to avoid

None reasonably foreseeable.

### Hazardous decomposition products

The product contains components which at higher temperatures can release oxides of phosphorus. When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

### Hazardous Polymerization

Will not occur.

### Sensitivity to Static Discharge

If heated above the flash point, solvent vapors in air may explode if static grounding and bonding is not used during transfer of this product.

### Sensitivity to Mechanical Impact

None known.

## 11. Toxicological information

### Information on likely routes of exposure

#### Inhalation

May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

#### Ingestion

May result in gastrointestinal distress.

#### Skin or eye contact

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

### Delayed and immediate effects and also chronic effects from short and long term exposure:

#### Acute oral toxicity

Not classified according to GHS criteria

#### Acute dermal toxicity

not hazardous

#### Acute inhalation toxicity

not hazardous

% of unknown composition: 0 %

### Skin corrosion/irritation

Phosphoric acid	Category 1B
Ethylene glycol monobutyl ether	Category 2
Potassium fluoride	Category 1C

### Serious eye damage/eye irritation

Ethylene glycol monobutyl ether	Category 2A
Octylphenoxypolyethoxy ethanol	Category 1

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Potassium fluoride

Category 1

### Respiratory sensitisation

Not classified according to GHS criteria

### Skin sensitisation

Not classified according to GHS criteria

### Germ cell mutagenicity

Potassium fluoride Category 2

### Carcinogenicity

Not classified according to GHS criteria

### Toxicity for reproduction

Potassium fluoride Category 2

### Target Organ Systemic Toxicant - Single exposure

No data available.

### Target Organ Systemic Toxicant - Repeated exposure

Not classified according to GHS criteria

### Aspiration toxicity

Not classified according to GHS criteria

### Numerical measures of toxicity (acute toxicity estimation (ATE),etc. )

No information available.

### Symptoms related to the physical, chemical and toxicological characteristics

No information available.

### Whether the hazardous chemical is listed by NTP, IARC or OSHA

## 12. Ecological information

There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

## 13. Disposal considerations

### Waste Disposal Method

Do not allow material to contaminate ground water systems. Incinerate or otherwise dispose of waste material in accordance with Federal, State, Provincial, and local requirements. Do not incinerate in closed containers.

## 14. Transport information

### International transport regulations

#### IMDG (Sea transport)

UN number: 3264  
Proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.  
(Phosphoric acid; Potassium fluoride)  
Hazard Class: 8  
Subsidiary Hazard Class: Not applicable.  
Packing group: III

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Marine Pollutant: no  
EmS: F-A,S-B

### ICAO/IATA (Air transport)

UN number: 3264  
Proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.  
(Phosphoric acid; Potassium fluoride)  
Hazard Class: 8  
Subsidiary Hazard Class: Not applicable.  
Packing group: III

### DOT

UN number: 3264  
Proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.  
(Phosphoric acid; Potassium fluoride)  
Hazard Class: 8  
Subsidiary Hazard Class: Not applicable.  
Packing group: III  
Marine Pollutant: no

The transport information is for bulk shipments. Exceptions may apply for smaller containers.

### Matters needing attention for transportation

Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

## 15. Regulatory information

### TSCA Status

In compliance with TSCA Inventory requirements for commercial purposes.

### DSL Status

All components of the mixture are listed on the DSL.

### Photochemical Reactivity

Non-photochemically reactive

### Regulatory information

CAS #	Ingredient	EPCRA					CERCLA RQ(lbs)	CAA HAP
		302	TPQ	RQ	311/312	313		
7664-38-2	Phosphoric acid	N	NR	NR	A,C,F,N,P,R	N	5,000	N
111-76-2	Ethylene glycol monobutyl ether	N	NR	NR	A,C,F	Y	NR	N
9036-19-5	Octylphenoxypolyethoxy ethanol	N	NR	NR	A,C,F,N,P,R	N	NR	N
7789-23-3	Potassium fluoride	N	NR	NR	C	N	NR	N

### Key:

EPCRA	Emergency Planning and Community Right-to-know Act (aka Title III, SARA)	
302	Extremely hazardous substances	
311/312 Categories	F = Fire Hazard R = Reactivity Hazard	A = Acute Hazard C = Chronic Hazard



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	P = Pressure Related Hazard
313 Information	Section 313 Supplier Notification - The chemicals listed above with a 'Y' in the 313 column are subject to reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know act of 1986 and of 40 CFR 372.
CERCLA	Comprehensive Emergency Response, Compensation and Liability Act of 1980.
HAP	Listed as a Clean Air Act Hazardous Air Pollutant.
TPQ	Threshold Planning Quantity.
RQ	Reportable Quantity
NA	not available
NR	not regulated

## 16. Other information

HMIS rating H: 3 F: 1 R: 1

### Glossary of Terms:

ACGIH	American Conference of Governmental Industrial Hygienists.
IARC	International Agency for Research on Cancer.
NTP	National Toxicology Program.
OEL	Occupational Exposure Limit
OSHA	Occupational Safety and Health Administration.
STEL	Short term exposure limit
TWA	Time-weighted average.
PNOR	Particles not otherwise regulated.
PNOC	Particles not otherwise classified.

NOTE: The list (above) of glossary terms may be modified.

### Notice from Axalta Coating Systems :

The document reflects information provided to Axalta Coating Systems by its suppliers. Information is accurate to the best of our knowledge and is subject to change as new data is received by Axalta Coating Systems. Persons receiving this information should make their own determination as to its suitability for their purposes prior to use.

The information on this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

SDS prepared by: Axalta Coating Systems Regulatory Affairs

Report version

Version	Changes
8.0	9

Revision Date: 2018-07-10

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