SAFETY DATA SHEET



Date of issue/Date of revision 4 April 2016 Version 6

Section 1. Identification		
Product name	: Aluminum Cleaner	
Product code	: DX533	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses of the substance or mixture and uses advised against		
Product use	: Industrial applications.	
Use of the substance/ mixture	: Coating. Paints. Painting-related materials.	
Uses advised against	: Not applicable.	
Manufacturer	: PPG Industries, Inc. One PPG Place, Pittsburgh, PA 15272	
Emergency telephone number	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) 01-800-00-21-400 (Mexico)	
Technical Phone Number	: 1-800-647-6050	

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: KIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	 Causes severe skin burns and eye damage. May cause damage to organs through prolonged or repeated exposure.
Precautionary statements	

Product name Aluminum Cleaner

Section 2. Hazards identification

Prevention	: Wear protective gloves. Wear eye or face protection. Wear protective clothing. Do not breathe vapor. Wash hands thoroughly after handling.
Response	 Get medical attention if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician. Apply generous quantities of fresh calcium gluconate gel to all areas. Get immediate medical attention.
Storage	: Store locked up.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: Add this product only to water. Never add water to this product. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Emits toxic fumes when heated.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Product name	: Aluminum Cleaner

Ingredient name	%	CAS number
hosphoric acid, solution	≥10 - ≤16	7664-38-2
2-butoxyethanol	≥5.0 - ≤10	111-76-2
ammonium bifluoride	≤1.4	1341-49-7

SUB codes represent substances without registered CAS Numbers.

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

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.

Occupational exposure limits, if available, are listed in Section 8.

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 Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

Description of necessary first aid measures

Eye	contact	

: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.

Product name Aluminum Cleaner

Section 4. First aid measures 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. **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. Apply generous quantities of fresh calcium gluconate gel to all areas. Get immediate medical attention. : If swallowed, seek medical advice immediately and show this container or label. Keep Ingestion person warm and at rest. Do NOT induce vomiting. Most important symptoms/effects, acute and delayed Potential acute health effects : Causes serious eye damage. Eye contact : No known significant effects or critical hazards. Inhalation

Skin contact : Causes severe burns.

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

Indication of immediate medical attention and special treatment needed, if necessary

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.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Product name Aluminum Cleaner

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: 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.
Hazardous thermal decomposition products	 Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides halogenated compounds
Special protective actions for fire-fighters	 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.
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.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

disposal contractor.

For non-emergency personnel	:	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.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
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).
Methods and materials for co	ont	ainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

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Section 6. Accidental release measures

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). The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. 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.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container.
Special precautions	: Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. Add this product only to water. Never add water to this product. Do not get in eyes or on skin or clothing. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: 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. Store locked up. Separate from alkalis. 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: 120°F / 49°C.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Product name Aluminum Cleaner

Section 8. Exposure controls/personal protection

Ingredient name		Exposure limits
Phosphoric acid, solution		ACGIH TLV (United States, 3/2015). STEL: 3 mg/m ³ 15 minutes. TWA: 1 mg/m ³ 8 hours. OSHA PEL (United States, 2/2013).
2-butoxyethanol		TWA: 1 mg/m ³ 8 hours. ACGIH TLV (United States, 3/2015). TWA: 20 ppm 8 hours. OSHA PEL (United States, 2/2013). Absorbed through skin. TWA: 240 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
ammonium bifluoride		TWA: 50 ppm 8 hours. OSHA PEL Z2 (United States, 2/2013). TWA: 2.5 mg/m ³ 8 hours. Form: Dust ACGIH TLV (United States, 3/2015). TWA: 2.5 mg/m ³ , (as F) 8 hours. OSHA PEL (United States, 2/2013). TWA: 2.5 mg/m ³ , (as F) 8 hours.
	Key to abbreviations	!
A = Acceptable Maximum Peak ACGIH = American Conference of Governmental Industrial Hygienists. C = Ceiling Limit F = Fume IPEL = Internal Permissible Exposure Limit OSHA = Occupational Safety and Health Administration. R = Respirable Z = OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances		S= Potential skin absorptionSR= Respiratory sensitizationSS= Skin sensitizationSTEL= Short term Exposure limit valuesTD= Total dustTLV= Threshold Limit ValueTWA= Time Weighted Average
	acceptable exposure limits.	
	 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. Reference should be made to appropriate monitoring standards Reference to national guidance documents for methods for the determination of hazardous substances will also be required. 	
opropriate engineering ontrols	: 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.	
nvironmental exposure ontrols	: 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.	
dividual protection measur	es	
Hygiene measures	: Wash hands, forearms and face the eating, smoking and using the lavat	broughly after handling chemical products, before tory 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.
 Chemical splash goggles and face shield.

Eye/face protection

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Section 8. Exposure controls/personal protection

Skin protection

Hand protection	: 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: 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.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: 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. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	:	Liquid.
Color	:	Not available.
Odor	:	Not available.
Odor threshold	:	Not available.
рН	1	2
Melting point	1	Not available.
Boiling point		>37.78°C (>100°F)
Flash point	:	Closed cup: >204.44°C (>400°F)
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive (flammable) limits	1	Not available.
Evaporation rate	:	0.32 (butyl acetate = 1)
Vapor pressure	:	2.3 kPa (17.2 mm Hg) [room temperature]
Vapor density	:	Not available.
Relative density	:	1.09
Density(lbs / gal)	:	9.1
Solubility	:	Insoluble in the following materials: cold water.
Partition coefficient: n- octanol/water	1	Not available.
Viscosity	:	Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)
Volatility	:	91% (v/v), 83.29% (w/w)

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Section 9. Physical and chemical properties

% Solid. (w/w)

: 16.71

Section 10. Stability	y and reactivity
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Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Phosphoric acid, solution	LD50 Dermal	Rabbit	2.74 g/kg	-
	LD50 Oral	Rat	1.25 g/kg	-
2-butoxyethanol	LD50 Dermal	Rabbit	1060 mg/kg	-
	LD50 Oral	Rat	470 mg/kg	-
Conclusion/Summary	: There are no data available of	on the mixture itsel	f.	
Irritation/Corrosion				
Conclusion/Summary				
Skin	: There are no data available c	on the mixture itsel	f.	
Eyes	: There are no data available c	on the mixture itsel	f.	
Respiratory	: There are no data available c	on the mixture itsel	f.	
<u>Sensitization</u>				
Conclusion/Summary				
Skin	: There are no data available c	on the mixture itsel	f.	
Respiratory	: There are no data available of	on the mixture itsel	f.	
<u>Mutagenicity</u>				
Conclusion/Summary	: There are no data available of	on the mixture itsel	f.	
Carcinogenicity				
Conclusion/Summary	: There are no data available o	on the mixture itsel	f.	
<u>Classification</u>				

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Section 11. Toxicological information

Product/ingredient name	OSHA	IARC	NTP	
2-butoxyethanol ammonium bifluoride	-	3 3		
Carcinogen Classification	code:	1	1	
IARC: 1, 2A, 2B, 3, 4 NTP: Known to be OSHA: + Not listed/not regul	a human caro	:inogen; Rea	sonably anticipated to be a human carcinogen	
Reproductive toxicity				
Conclusion/Summary :	There are	no data av	vailable on the mixture itself.	
<u>Feratogenicity</u>				
Conclusion/Summary :	There are	no data av	vailable on the mixture itself.	
Specific target organ toxicity	<u>(single exp</u>	<u>osure)</u>		
Not available.				
Specific target organ toxicity	(repeated e	exposure)		
Name				Category
ammonium bifluoride				Category 2
	lungs, live	material wł er, spleen, l	hich causes damage to the following organs: bra hich may cause damage to the following organs: lymphatic system, upper respiratory tract, skin, b em (CNS), eye, lens or cornea, teeth.	blood, kidneys
Aspiration hazard	lungs, live	material wł er, spleen, l	hich may cause damage to the following organs: lymphatic system, upper respiratory tract, skin, b	blood, kidney
Not available.	lungs, live central ne	material wł er, spleen, l ervous syste	hich may cause damage to the following organs: lymphatic system, upper respiratory tract, skin, b	blood, kidneys
Not available. formation on the likely routes	lungs, live central ne	material wł er, spleen, l ervous syste	hich may cause damage to the following organs: lymphatic system, upper respiratory tract, skin, b	blood, kidney
Not available. formation on the likely routes Potential acute health effects	lungs, live central ne s of exposu	material wł er, spleen, l ervous syste ure	hich may cause damage to the following organs: lymphatic system, upper respiratory tract, skin, b em (CNS), eye, lens or cornea, teeth.	blood, kidneys
Not available. formation on the likely routes Potential acute health effects Eye contact	lungs, live central ne s of exposu	material wh er, spleen, l ervous syste ure erious eye	hich may cause damage to the following organs: lymphatic system, upper respiratory tract, skin, b em (CNS), eye, lens or cornea, teeth.	blood, kidneys
Not available. formation on the likely routes <u>Potential acute health effects</u> Eye contact Inhalation	lungs, live central ne s of exposu	material wh er, spleen, l ervous syste ure erious eye a significant	hich may cause damage to the following organs: lymphatic system, upper respiratory tract, skin, b em (CNS), eye, lens or cornea, teeth. damage. t effects or critical hazards.	blood, kidneys
Not available. formation on the likely routes Potential acute health effects Eye contact Inhalation Skin contact Ingestion	lungs, live central ne s of exposu Causes se No knowr Causes se No knowr	material wh r, spleen, l rvous syste ure erious eye n significant evere burn	hich may cause damage to the following organs: lymphatic system, upper respiratory tract, skin, b em (CNS), eye, lens or cornea, teeth. damage. t effects or critical hazards.	blood, kidneys
Not available. formation on the likely routes Potential acute health effects Eye contact Inhalation Skin contact Ingestion	lungs, live central ne s of exposu Causes s No knowr Causes s No knowr ms	material wh er, spleen, l ervous syste a significant evere burn a significant	hich may cause damage to the following organs: lymphatic system, upper respiratory tract, skin, b em (CNS), eye, lens or cornea, teeth. damage. t effects or critical hazards. s. t effects or critical hazards.	blood, kidneys
Not available. formation on the likely routes Potential acute health effects Eye contact Inhalation Skin contact Ingestion	lungs, live central ne s of exposu Causes s No knowr Causes s No knowr ms	material wh er, spleen, l ervous syste a significant evere burn a significant	hich may cause damage to the following organs: lymphatic system, upper respiratory tract, skin, b em (CNS), eye, lens or cornea, teeth. damage. t effects or critical hazards. s.	blood, kidney
Not available. formation on the likely routes Potential acute health effects Eye contact Inhalation Skin contact Ingestion Dver-exposure signs/sympton Eye contact	Iungs, live central ne s of exposu Causes se No knowr Causes se No knowr Ms Adverse s pain watering	material wher, spleen, lervous syste rvous syste are erious eye a significant evere burn a significant symptoms r	hich may cause damage to the following organs: lymphatic system, upper respiratory tract, skin, b em (CNS), eye, lens or cornea, teeth. damage. t effects or critical hazards. s. t effects or critical hazards.	blood, kidneys
Not available. formation on the likely routes Potential acute health effects Eye contact Inhalation Skin contact Ingestion Dver-exposure signs/sympton Eye contact Inhalation	Iungs, live central ne s of exposu Causes so No knowr Causes so No knowr S Adverse so pain watering redness No specifi Adverse so pain or irr redness	material where a spleen, i revous system revous system revous system revous eye a significant evere burn a significant symptoms re ic data.	hich may cause damage to the following organs: lymphatic system, upper respiratory tract, skin, b em (CNS), eye, lens or cornea, teeth. damage. t effects or critical hazards. s. t effects or critical hazards. may include the following:	blood, kidneys
Not available. formation on the likely routes Potential acute health effects Eye contact Inhalation Skin contact Ingestion Dver-exposure signs/sympton Eye contact Inhalation Skin contact	Iungs, live central ne of expose Causes s No knowr Causes s No knowr S Adverse s pain watering redness No specif Adverse s pain or irr redness blistering	material wher, spleen, lervous systemers rroous eye a significant evere burn a significant symptoms r itation may occur symptoms r	hich may cause damage to the following organs: lymphatic system, upper respiratory tract, skin, b em (CNS), eye, lens or cornea, teeth. damage. t effects or critical hazards. s. t effects or critical hazards. may include the following:	blood, kidney

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Product name Aluminum Cleaner

Section 11. Toxicological information

Conclusion/Summary	There are no data available on the mixture itself. Exposure to compon concentrations in excess of the stated occupational exposure limit may health effects such as mucous membrane and respiratory system irrita effects on the kidneys, liver and central nervous system. Symptoms an headache, dizziness, fatigue, muscular weakness, drowsiness and, in coss of consciousness. Solvents may cause some of the above effects hrough the skin. There is some evidence that repeated exposure to o rapors in combination with constant loud noise can cause greater hear expected from exposure to noise alone. If splashed in the eyes, the liq tritation and reversible damage. Ingestion may cause nausea, diarrhe This takes into account, where known, delayed and immediate effects effects of components from short-term and long-term exposure by oral lermal routes of exposure and eye contact.	v result in adverse tion and adverse nd signs include extreme cases, by absorption rganic solvent ing loss than juid may cause a and vomiting. and also chronic
<u>Short term exposure</u>		
Potential immediate effects	here are no data available on the mixture itself.	
Potential delayed effects	here are no data available on the mixture itself.	
Long term exposure		
Potential immediate effects	here are no data available on the mixture itself.	
Potential delayed effects	here are no data available on the mixture itself.	
Potential chronic health effe		
General	Aay cause damage to organs through prolonged or repeated exposure	÷.
Carcinogenicity	lo known significant effects or critical hazards.	
Mutagenicity	lo known significant effects or critical hazards.	
Teratogenicity	lo known significant effects or critical hazards.	
Developmental effects	lo known significant effects or critical hazards.	
Fertility effects	lo known significant effects or critical hazards.	
Numerical measures of toxic		
Acute toxicity estimates		

Route	ATE value
Oral	2081.1 mg/kg
Dermal	6507.8 mg/kg
Inhalation (gases)	44558.9 ppm
Inhalation (vapors)	108.9 mg/l
Inhalation (dusts and mists)	14.85 mg/l

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Product name Aluminum Cleaner

Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2-butoxyethanol	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-butoxyethanol	0.81	-	low

Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

Section 13. Disposal considerations

Disposal methods	: The generation of waste should be avoided or minimized wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
	when recycling is not feasible. This material and its container must be disposed of in safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains

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

	DOT	IMDG	IATA
UN number	UN3066	UN3066	UN3066
UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAI
Transport hazard class (es)	8	8	8
Packing group	П	11	11
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.
Product RQ (lbs)	7263.9	Not applicable.	Not applicable.
RQ substances			

Product name Aluminum Cleaner

14. Transport information (ammonium bifluoride, Phosphoric acid, solution) Not applicable. Not applicable.

Additional information

- **DOT** : Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
- IMDG : None identified.

IATA : None identified.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information

2

United States

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

- U.S. Federal regulations
- SARA 302/304
- SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

SARA 311/312 Classification

: Immediate (acute) health hazard Delayed (chronic) health hazard

Composition/information on ingredients

Name	hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Phosphoric acid, solution	No.	No.	No.	Yes.	No.
2-butoxyethanol	Yes.	No.	No.	Yes.	No.
ammonium bifluoride	No.	No.	No.	Yes.	Yes.

<u>SARA 313</u>

Supplier notification

<u>Chemical name</u> 2-butoxyethanol ammonium bifluoride
 CAS number
 Concentration

 111-76-2
 7 - 13

 1341-49-7
 0.5 - 1.5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

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

Product name Aluminum Cleaner

Section 16. Other information

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

Health : 4 * 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 Ass	ociation (U.S.A.)			
Health : 4 Flammability : 1 Instability : 1				
Date of previous issue	: 12/14/2015			
Organization that prepared the MSDS	: EHS			
Key to abbreviations	 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations 			

Indicates information that has changed from previously issued version.

Disclaimer

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