

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 04.23.2018

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Engine Enamel ALUMINUM

SECTION 1: Identification

Product identifier

Product name: Engine Enamel ALUMINUM

Product code: 42008



Recommended use of the product and restriction on use

Relevant identified uses: Coating compound/ Surface coating/ paint

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:

United States

P.O.R. Products

38 Portman Road

New Rochelle, NY 10801

914-636-0700

Emergency telephone number:

United States

ChemTel Inc.

+1 800 255 3924

+1 813 248 0585

SECTION 2: Hazard(s) identification

GHS classification:

Flammable liquids, category 3

Skin sensitization, category 1

Specific target organ toxicity - repeated exposure, category 1

Reproductive toxicity, category 2

Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements:

H226 Flammable liquid and vapor.

H317 May cause an allergic skin reaction.

H372 Causes damage to organs.

H361 Suspected of damaging fertility or the unborn child.

Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

P242 Use only non-sparking tools.

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- P243 Take precautionary measures against static discharge.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P264 Wash skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P281 Use personal protective equipment as required.
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P370+P378 In case of fire: Use appropriate fire extinguishing methods for extinction.
- P321 Specific treatment (see first aid instructions on this label).
- P363 Wash contaminated clothing before reuse
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P333+P313 If skin irritation or a rash occurs: Get medical advice/attention
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P314 Get medical advice/attention if you feel unwell
- P308+P313 If exposed or concerned: Get medical advice/attention
- P403+P235 Store in a well ventilated place. Keep cool.
- P405 Store locked up.
- P501 Dispose of contents/container to ...

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 64742-48-9	Naphtha (petroleum), hydrotreated heavy	6-9
CAS number: 64742-95-6	Solvent naphtha (petroleum), light arom.	<3
CAS number: 136-52-7	Cobalt bis(2-ethylhexanoate)	<0.5
CAS number: 7429-90-5	Aluminum	6-9
CAS number: 96-29-7	Methyl ethyl ketoxime	0.1-0.5
CAS number: 8052-41-3	Stoddard Solvent	30-35

Additional Information: None

SECTION 4: First aid measures

Description of first aid measures

General notes:

Not determined or not applicable.

After inhalation:

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Loosen clothing as necessary and position individual in a comfortable position
Maintain an unobstructed airway
Get medical advice/attention if you feel unwell

After skin contact:

Rinse affected area with soap and water
If symptoms develop or persist, seek medical attention

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes
If symptoms develop or persist, seek medical attention

After swallowing:

Rinse mouth thoroughly
Seek medical attention if irritation, discomfort, or vomiting persists

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Not determined or not applicable.

Delayed symptoms and effects:

Not determined or not applicable.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Not determined or not applicable.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use Water (fog only), dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam

Unsuitable extinguishing media:

Do not use a water stream as an extinguisher

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors
Vapors can flow to distant ignition sources and flashback
Liquid is volatile and may generate an explosive atmosphere

Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

Special precautions:

Shut off sources of ignition
Carbon monoxide and carbon dioxide may form upon combustion
Heating causes a rise in pressure, risk of bursting and combustion

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation
Ensure air handling systems are operational
Wear protective eye wear, gloves and clothing
Beware of vapors accumulating to form explosive concentrations
Vapors can accumulate in low areas

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Environmental precautions:

Should not be released into the environment
Prevent from reaching drains, sewer or waterway

Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing
Use spark-proof tools and explosion-proof equipment
Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)
Dispose of contents / container in accordance with local regulations

Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:

Use only with adequate ventilation.
Avoid breathing mist or vapor.
Do not eat, drink, smoke or use personal products when handling chemical substances.
Take precautionary measures against electrostatic discharges.
Use only non-sparking tools.

Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed.
Protect from freezing and physical damage.
Store in a cool, well-ventilated area.
Store away from all ignition sources (open flames, hot surfaces, direct sunlight, spark sources).

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
United States (OSHA)	Naphtha (petroleum), hydrotreated heavy	64742-48-9	OSHA Z-1 TWA 500 ppm (2,000 mg/m ³)
	Stoddard Solvent	8052-41-3	OSHA Z-1 PEL: 500 ppm (2900 mg/m ³)
	Stoddard Solvent	8052-41-3	OSHA Z-1-A TWA: 100 ppm (525 mg/m ³)
	Aluminum	7429-90-5	OSHA PEL TWA 15 mg/m ³ (Total dust)
	Aluminum	7429-90-5	OSHA PEL TWA 5 mg/m ³ (Respirable fraction)
ACGIH	Cobalt bis(2-ethylhexanoate)	136-52-7	ACGIH TLV TWA: 0.02 mg/m ³ , as Co
	Stoddard Solvent	8052-41-3	ACGIH TLV TWA: 100 ppm
	Aluminum	7429-90-5	ACGIH TLV TWA 10.0 mg/m ³ (Metal dust)
	Aluminum	7429-90-5	ACGIH TLV TWA 2.0 mg/m ³ (Soluble salts)
	Aluminum	7429-90-5	ACGIH TLV TWA 5.0 mg/m ³ (Pyro powders, welding fumes)

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Aluminum	7429-90-5	ACGIH TLV TWA: 1.0 mg/m ³ (Respirable fraction)
NIOSH	Stoddard Solvent	8052-41-3	NIOSH REL TWA 350 mg/m ³
	Stoddard Solvent	8052-41-3	NIOSH REL C 1800 mg/m ³
	Aluminum	7429-90-5	NIOSH REL TWA 10 mg/m ³ (Total dust)
	Aluminum	7429-90-5	NIOSH REL TWA 5.0 mg/m ³ (Respirable fraction)
WEEL	Methyl ethyl ketoxime	96-29-7	WEEL TWA: 10 ppm
Australia	Aluminum	7429-90-5	TWA: 10 mg/m ³ (Metal dust), 5 mg/m ³ (Welding fumes), 5 mg/m ³ (Pyro powders)

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.

Biological monitoring may also be appropriate for some substances.

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. Use explosion-proof ventilation equipment.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance.

Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

General hygienic measures:

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and at the end of work.

Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Silver Colored Liquid
Odor	Solvent-like
Odor threshold	Not determined or not available.
pH	Not determined or not available.

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Melting point/freezing point	Not determined or not available.
Initial boiling point/range	>284°F (>140°C)
Flash point (closed cup)	>105°F (>41°C)
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Vapor density	Not determined or not available.
Density	0.848-0.945 g/cm ³
Relative density	Not determined or not available.
Solubilities	Not miscible.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Product is not self-igniting
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Product is not explosive . However, formation of explosive air/vapor mixtures are possible.
Oxidizing properties	Not determined or not available.

Other information

VOC Content	60-68% (Max - < 430 g/L)
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SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

Develops readily flammable gases/fumes.

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.

Can react violently with oxygen rich (oxidizing) materials.

Toxic fumes may be released if heated above the decomposition point.

Used empty containers may contain product gases which form explosive mixtures with air.

Conditions to avoid:

Keep away from heat, sparks, flames and other sources of ignition.

Store away from oxidizing agents.

Incompatible materials:

None known.

Hazardous decomposition products:

CO, CO₂.

Hydrocarbons.

SECTION 11: Toxicological information

Acute toxicity

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Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Skin corrosion/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data:

Name	Result
Naphtha (petroleum), hydrotreated heavy	Irritating to the skin.
Cobalt bis(2-ethylhexanoate)	Irritating to the skin.

Serious eye damage/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data:

Name	Result
Methyl ethyl ketoxime	Risk of serious damage to the eyes.

Respiratory or skin sensitization

Assessment: May cause an allergic skin reaction

Product data:

No data available.

Substance data:

Name	Result
Cobalt bis(2-ethylhexanoate)	May cause sensitization by skin contact.
Methyl ethyl ketoxime	May cause sensitization by skin contact

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Species	Result
Stoddard Solvent	Stoddard Solvent	Component may cause cancer.
Naphtha (petroleum), hydrotreated heavy		May cause cancer.
Methyl ethyl ketoxime		May cause cancer.
Solvent naphtha (petroleum), light arom.	Solvent naphtha (petroleum), light arom.	Component may cause cancer.

International Agency for Research on Cancer (IARC):

Name	Classification
Stoddard Solvent	Group 3
Cobalt bis(2-ethylhexanoate)	Group 2B

National Toxicology Program (NTP):

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Name	Classification
Cobalt bis(2-ethylhexanoate)	Reasonably anticipated to be human carcinogens

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data:

Name	Result
Stoddard Solvent	May cause genetic defects.
Naphtha (petroleum), hydrotreated heavy	May cause genetic defects.
Solvent naphtha (petroleum), light arom.	May cause genetic defects.

Reproductive toxicity

Assessment: Suspected of damaging fertility or the unborn child

Product data:

No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data:

Name	Result
Naphtha (petroleum), hydrotreated heavy	Component affects the central nervous system.

Specific target organ toxicity (repeated exposure)

Assessment: Causes damage to organs through prolonged or repeated exposure

Product data:

No data available.

Substance data:

Name	Result
Stoddard Solvent	Causes damage to organs through prolonged or repeated exposure.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data:

Name	Result
Stoddard Solvent	May be fatal if swallowed and enters airways.
Naphtha (petroleum), hydrotreated heavy	May be fatal if swallowed and enters airway.
Solvent naphtha (petroleum), light arom.	May be fatal if swallowed and enters airway.

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Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

Other information:

No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Chronic (long-term) toxicity

Product data: No data available.

Substance data:

Name	Result
Cobalt bis(2-ethylhexanoate)	NOEC - Pimephales promelas - 0.21 mg/L - 34 d

Persistence and degradability

Product data: No data available.

Substance data: No data available.

Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

Mobility in soil

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.



SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

SECTION 14: Transport information

United States Transportation of dangerous goods (49 CFR DOT)

UN number	1263
UN proper shipping name	Paint
UN transport hazard class(es)	3  
Packing group	III
Environmental hazards	Marine Pollutant (Stoddard Solvent)
Special precautions for user	None
Passenger air/rail	60L
Cargo aircraft only	220L

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Stowage category	A
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International Maritime Dangerous Goods (IMDG)

UN number	1263	
UN proper shipping name	Paint	
UN transport hazard class(es)	3	
Packing group	III	
Environmental hazards	Marine Pollutant (Stoddard Solvent)	
Special precautions for user	None	
EmS number	F-E, S-E	
Stowage category	A	
Excepted quantities	E1	
Limited quantity	5L	

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	1263	
UN proper shipping name	Paint	
UN transport hazard class(es)	3	
Packing group	III	
Environmental hazards	Marine Pollutant (Stoddard Solvent)	
Special precautions for user	None	
ERG code	3L	
Excepted quantities	E1	
Passenger and cargo	60L	
Cargo aircraft only	220L	
Limited quantity	10L	

SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA):

8052-41-3	Stoddard Solvent	Listed
64742-48-9	Naphtha (petroleum), hydrotreated heavy	Listed
136-52-7	Cobalt bis(2-ethylhexanoate)	Listed
96-29-7	Methyl ethyl ketoxime	Listed
64742-95-6	Solvent naphtha (petroleum), light arom.	Listed
7429-90-5	Aluminum	Listed

Significant New Use Rule (TSCA Section 5): Not determined.

Export notification under TSCA Section 12(b): Not determined.

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SARA Section 302 extremely hazardous substances: Not determined.

SARA Section 313 toxic chemicals:

8052-41-3	Stoddard Solvent	Not Listed
64742-48-9	Naphtha (petroleum), hydrotreated heavy	Not Listed
136-52-7	Cobalt bis(2-ethylhexanoate)	Listed
96-29-7	Methyl ethyl ketoxime	Not Listed
7429-90-5	Aluminum	Listed

CERCLA: Not determined.

RCRA: Not determined.

Section 112(r) of the Clean Air Act (CAA): Not determined.

Massachusetts Right to Know:

8052-41-3	Stoddard Solvent	Listed
64742-48-9	Naphtha (petroleum), hydrotreated heavy	Not Listed
136-52-7	Cobalt bis(2-ethylhexanoate)	Not Listed
96-29-7	Methyl ethyl ketoxime	Not Listed
64742-95-6	Solvent naphtha (petroleum), light arom.	Not Listed
7429-90-5	Aluminum	Listed

New Jersey Right to Know:

8052-41-3	Stoddard Solvent	Listed
64742-48-9	Naphtha (petroleum), hydrotreated heavy	Not Listed
136-52-7	Cobalt bis(2-ethylhexanoate)	Listed
96-29-7	Methyl ethyl ketoxime	Not Listed
64742-95-6	Solvent naphtha (petroleum), light arom.	Not Listed
7429-90-5	Aluminum	Listed

New York Right to Know:

8052-41-3	Stoddard Solvent	Listed
64742-48-9	Naphtha (petroleum), hydrotreated heavy	Listed
136-52-7	Cobalt bis(2-ethylhexanoate)	Listed
96-29-7	Methyl ethyl ketoxime	Not Listed
64742-95-6	Solvent naphtha (petroleum), light arom.	Not Listed
7429-90-5	Aluminum	Listed

Pennsylvania Right to Know:

8052-41-3	Stoddard Solvent	Listed
64742-48-9	Naphtha (petroleum), hydrotreated heavy	Listed
136-52-7	Cobalt bis(2-ethylhexanoate)	Listed

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96-29-7	Methyl ethyl ketoxime	Not Listed
64742-95-6	Solvent naphtha (petroleum), light arom.	Not Listed
7429-90-5	Aluminum	Listed

California Proposition 65: None of the ingredients are listed.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 2-2-0

HMIS: 2-2-0

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End of Safety Data Sheet