

Safety Data Sheet
according to 1907/2006/EC (REACH),
1272/2008/EC (CLP), and GHS

Printing date: 11.22.2013

Revision: 11.22.2013

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

1.1 Product identifier

Trade Name: POR-20 High Heat Aluminum and High Temperature Aluminum

Article number: P2

1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

Application of the substance / the preparation: Paint

1.3 Details of the supplier of the Safety Data Sheet

Manufacturer/Supplier:

Absolute Coatings Inc.
38 Portman Road
New Rochelle, NY 10801
Phone: 1-800-221-8010

1.4 Emergency telephone number:

ChemTel Inc.
(800)255-3924, +1 (813)248-0585

2 Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H412.



GHS02 flame

Flam. Liq. 3; H226: Flammable liquid and vapour.



GHS08 health hazard

Muta. 1B; H340: May cause genetic defects.

Carc. 1B; H350: May cause cancer.

Asp. Tox. 1; H304: May be fatal if swallowed and enters airways.



GHS05 corrosion

Eye Dam. 1; H318: Causes serious eye damage.

Aquatic Chronic 3; H412: Harmful to aquatic life with long lasting effects.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



T; Toxic

R45-46: May cause cancer. May cause heritable genetic damage.



Xn; Harmful

R65: Harmful: may cause lung damage if swallowed.

R10: Flammable.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

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The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS02 GHS05 GHS08

Signal word: Danger**Hazard-determining components of labelling:**

Solvent naphtha (petroleum), medium aliph.

Stoddard solvent

Dialkyldimethylammonium Bentonite

Hazard statements

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation:

H412.

H226: Flammable liquid and vapour.

H318: Causes serious eye damage.

H340: May cause genetic defects.

H350: May cause cancer.

H304: May be fatal if swallowed and enters airways.

H412: Harmful to aquatic life with long lasting effects.

Precautionary statements

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P103: Read label before use.

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

P281: Use personal protective equipment as required.

P233: Keep container tightly closed.

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331: Do NOT induce vomiting.

P370+P378: In case of fire: Use for extinction: CO2, powder or water spray.

Additional information:

Restricted to professional users.

Hazard description:**WHMIS-symbols:**

B3 - Combustible liquid

D2A - Very toxic material causing other toxic effects

**NFPA ratings (scale 0 - 4)**

Health = 1
 Fire = 2
 Reactivity = 2

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HMIS-ratings (scale 0 - 4)

HEALTH	*1	Health = *1
FIRE	2	Fire = 2
REACTIVITY	2	Reactivity = 2

* - Indicates a long term health hazard from repeated or prolonged exposures.

HMIS Long Term Health Hazard Substances

8052-41-3	Stoddard solvent
64742-88-7	Solvent naphtha (petroleum), medium aliph.

2.3 Other hazards**Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

3 Composition/information on ingredients**3.2 Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
CAS: 64742-88-7 EINECS: 265-191-7 Index number: 649-405-00-X	Solvent naphtha (petroleum), medium aliph. Xn R65 Flam. Liq. 3, H226 Asp. Tox. 1, H304	30-60%
CAS: 7429-90-5	Aluminum metal F R15	30-60%
CAS: 8052-41-3 EINECS: 232-489-3 Index number: 649-345-00-4	Stoddard solvent Xn R65 Flam. Liq. 3, H226 Muta. 1B, H340; Carc. 1B, H350; Asp. Tox. 1, H304	5-15%
CAS: 68953-58-2	Dialkyldimethylammonium Bentonite Xi R41; N R51/53 Eye Dam. 1, H318 Aquatic Chronic 2, H411	1-5%

Additional information: For the wording of the listed risk phrases refer to section 16.**Notable Trace Components (< 0.1% w/w)**

CAS: 71-43-2 EINECS: 200-753-7 Index number: 601-020-00-8	Benzene T Carc. Cat. 1, Muta. Cat. 2 R45-46-48/23/24/25; Xn R65; Xi R36/38; F R11 Flam. Liq. 2, H225 Muta. 1B, H340; Carc. 1A, H350; STOT RE 1, H372; Asp. Tox. 1, H304 Skin Irrit. 2, H315; Eye Irrit. 2, H319
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4 First aid measures**4.1 Description of first aid measures****General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Take affected persons out into the fresh air

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After inhalation:

Supply fresh air; consult doctor in case of complaints.
 Provide oxygen treatment if affected person has difficulty breathing.
 In case of irregular breathing or respiratory arrest provide artificial respiration.
 In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.
 Immediately remove any clothing soiled by the product.
 If skin irritation continues, consult a doctor.

After eye contact:

Remove contact lenses if worn.
 Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.
 Do not induce vomiting; call for medical help immediately.
 A person vomiting while laying on their back should be turned onto their side.

4.2 Most important symptoms and effects, both acute and delayed

Gastric or intestinal disorders.

Cramp

Dizziness

Headache

Disorientation

Unconsciousness

Breathing difficulty

Coughing

Hazards:

Danger of severe eye injury.
 Danger of pulmonary oedema.
 Danger of impaired breathing.
 Danger of convulsion.
 Condition may deteriorate with alcohol consumption.
 Danger of disturbed cardiac rhythm.

4.3 Indication of any immediate medical attention and special treatment needed

If swallowed, gastric irrigation with added, activated carbon.
 Medical supervision for at least 48 hours.
 If necessary oxygen respiration treatment.
 Later observation for pneumonia and pulmonary oedema.
 If swallowed or in case of vomiting, danger of entering the lungs.

5 Firefighting measures

5.1 Extinguishing media**Suitable extinguishing agents:**

Foam

Fire-extinguishing powder

Carbon dioxide

Gaseous extinguishing agents

For safety reasons unsuitable extinguishing agents: None.

Water with full jet

Water spray

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5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Nitrogen oxides (NO_x)

Carbon monoxide (CO)

5.3 Advice for firefighters**Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information:

Eliminate all ignition sources if safe to do so.

Cool endangered receptacles with water fog or haze.

6 Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources.

Protect from heat.

Particular danger of slipping on leaked/spilled product.

6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

Prevent from spreading (e.g. by damming-in or oil barriers).

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Send for recovery or disposal in suitable receptacles.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage**7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

Keep away from heat and direct sunlight.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect from heat.

Protect against electrostatic charges.

Keep respiratory protective device available.

Fumes can combine with air to form an explosive mixture.

7.2 Conditions for safe storage, including any incompatibilities**Storage:**

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Requirements to be met by storerooms and receptacles:

Store in a cool location.

Provide ventilation for receptacles.

Avoid storage near extreme heat, ignition sources or open flame.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizing agents.

Do not store together with acids.

Do not store together with alkalis (caustic solutions).

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Keep container tightly sealed.

Protect from heat and direct sunlight.

Store receptacle in a well ventilated area.

7.3 Specific end use(s): No further relevant information available.**8 Exposure controls/personal protection****Additional information about design of technical facilities:** No further data; see item 7.**8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:****8052-41-3 Stoddard solvent**

PEL (USA)	Long-term value: 2900 mg/m ³ , 500 ppm
REL (USA)	Short-term value: C 1800* mg/m ³ Long-term value: 350 mg/m ³ *15-min
TLV (USA)	Long-term value: 525 mg/m ³ , 100 ppm
EL (Canada)	Short-term value: 580 mg/m ³ Long-term value: 290 mg/m ³
EV (Canada)	Long-term value: 525 mg/m ³

7429-90-5 Aluminum metal

PEL (USA)	Long-term value: 15*; 15** mg/m ³ *Total dust; ** Respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m ³ *Total dust **Respirable fraction
TLV (USA)	Long-term value: 1* mg/m ³ as Al; *as respirable fraction
EL (Canada)	Long-term value: 1.0 mg/m ³ metal and insoluble compounds, respirable
EV (Canada)	Long-term value: 5 mg/m ³ aluminium-containing (as aluminium)

DNELs: No further relevant information available.**PNECs:** No further relevant information available.**Additional information:** The lists valid during the making were used as basis.**8.2 Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

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Wash hands before breaks and at the end of work.

Store protective clothing separately.

Do not inhale gases / fumes / aerosols.

Respiratory protection: Suitable respiratory protective device recommended.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:



Safety glasses

Body protection: Protective work clothing

Limitation and supervision of exposure into the environment:

No further relevant information available.

Risk management measures

See Section 7 for additional information.

No further relevant information available.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:	Liquid
Colour:	Grey
Odour:	Characteristic
Odour threshold:	Not determined.

pH-value: Not determined.

Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	284 °F / 140 °C

Flash point: 105 °F / 41 °C

Flammability (solid, gaseous): Not applicable.

Ignition temperature: 444 °F / 229 °

Decomposition temperature: Not determined.

Self-igniting: Product is not self-igniting.

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Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Explosion limits:	
Lower:	0.6 Vol %
Upper:	6.5 Vol %
Vapour pressure at 20 °C:	6.6 hPa
Density at 20°C:	1.50 g/cm ³
Relative density:	Not determined.
Vapour density:	Not determined.
Evaporation rate:	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
9.2 Other information:	No further relevant information available.

10 Stability and reactivity

10.1 Reactivity

10.2 Chemical stability:

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions

Flammable.

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

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

Can react violently with oxygen rich (oxidizing) material. Danger of Explosion.

Develops readily flammable gases/fumes.

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

Reacts with strong acids and alkali.

10.4 Conditions to avoid:

Keep ignition sources away - Do not smoke.

Store away from oxidizing agents.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Nitrogen oxides

Toxic metal oxide smoke

11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

LD/LC50 values relevant for classification:

64742-88-7 Solvent naphtha (petroleum), medium aliph.

Oral	LD50	>6500 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rab)
Inhalative	LC50/4 h	>14 mg/l (rat)

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Primary irritant effect:**On the skin:** No irritant effect.**On the eye:** Strong irritant with the danger of severe eye injury.**Sensitization:** No sensitizing effects known.**Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Carcinogenic.

The product can cause inheritable damage.

Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc

Repeated dose toxicity: May cause damage to organs through prolonged or repeated exposure.**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**

Muta. 1B, Carc. 1B

12 Ecological information**12.1 Toxicity****Aquatic toxicity:** The product contains materials that are harmful to the environment.**12.2 Persistence and degradability:** The product is partly biodegradable. Significant residuals remain.**12.3 Bioaccumulative potential:** May be accumulated in organism**12.4 Mobility in soil:** No further relevant information available.**Ecotoxicological effects:****Remark:**

Due to mechanical actions of the product (e.g. agglutinations) damages may occur.

The product is oxygen-consuming. The declared action may be partly caused by lack of oxygen.

Additional ecological information:**General notes:**

This statement was deduced from the properties of the single components.

The product contains heavy metals. Avoid transfer into the environment. Specific preliminary treatments are necessary.

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment cannot be excluded.

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water.

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

12.5 Results of PBT and vPvB assessment**PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Other adverse effects:** No further relevant information available.**13 Disposal considerations****13.1 Waste treatment methods****Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

Contact waste processors for recycling information.

Uncleaned packaging:**Recommendation:** Disposal must be made according to official regulations.

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14 Transport information

14.1 UN-Number

DOT:	N/A Classified as combustible under US DOT regulations. Labeling required for single packages \geq 119 US gal / 450 L to include Combustible symbol and Proper Shipping Name.
ADR, IMDG, IATA:	UN1263

14.2 UN proper shipping name

DOT:	N/A
ADR:	1263 Paint Related Material
IMDG, IATA:	Paint Related Material

14.3 Transport hazard class(es)**DOT**

Class:	N/A
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ADR

Class:	3 (F1) Flammable liquids.
Label:	3

IMDG, IATA

Class:	3 Flammable liquids.
Label:	3

14.4 Packing group

DOT:	N/A
DR, IMDG, IATA:	III

14.5 Environmental hazards:

Marine pollutant:	No
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14.6 Special precautions for user:

Warning:	Warning: Flammable liquids.
Danger code (Kemler):	33
EMS Number:	F-E,S-E

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not applicable.

Transport/Additional information:**ADR**

Limited quantities (LQ):	5L
Transport category:	3
Tunnel restriction code:	D/E

UN "Model Regulation":	UN1263, Paint Related Material, 3, III
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15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture United States (USA)

SARA

Section 355 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

7429-90-5	aluminium powder (stabilised)
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TSCA (Toxic Substances Control Act):

All ingredients is listed.

Proposition 65 (California):

Chemicals known to cause cancer:

Present in trace quantities.

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

Present in trace quantities.

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

Present in trace quantities.

None of the ingredients is listed.

Carcinogenic Categories

EPA (Environmental Protection Agency)

None of the ingredients is listed.

IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)

7429-90-5	aluminium powder (stabilised)
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NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

Canada

Canadian Domestic Substances List (DSL)

All ingredients is listed.

Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

Canadian Ingredient Disclosure list (limit 1%)

8052-41-3	Stoddard solvent
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7429-90-5	aluminium powder (stabilised)
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National regulations:

Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H226: Flammable liquid and vapour.

H304: May be fatal if swallowed and enters airways.

H318: Causes serious eye damage.

H340: May cause genetic defects.

H350: May cause cancer.

H411: Toxic to aquatic life with long lasting effects.

R15: Contact with water liberates extremely flammable gases.

R41: Risk of serious damage to eyes.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65: Harmful: may cause lung damage if swallowed.

Abbreviations and Acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)