

# SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** JUPITER AAA

ROCKMOUNT RESEARCH & ALLOYS, INC.  
11909 N. E. 95th Street  
Vancouver, WA 98668  
Phone: 360-254-2020  
Fax: 360-254-2332  
E-mail: sales@weldit.com

**EMERGENCY TELEPHONE NUMBER:** 360-254-2020

## 2. HAZARDS IDENTIFICATION

**Emergency Overview:** These products are normally not considered hazardous as shipped. Avoid inhalation of dust or eye contact from these products. When these products are used in a welding process, the most important hazards are heat, radiation, electric shock and inhalation of welding fumes.

Classification of the Substance/Mixture

**CLP/GHS Classification (1272/2008):**

**Skin Sensitization, Category 1**

**Skin Irritation, Category 2**

**Eye Irritation, Category 2**

**Carcinogenicity, Category 2**

**Specific Target Organ Toxicity (Single Exposure), Category 3**

**EU Classification (67/548/EEC):**

**Toxic (T), Harmful (Xn), Irritant (Xi), Carcinogen Category 3, R48/23, R40, R36/37/38, R43**

**Labelling:**

**Symbols:**



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**Signal Word: Danger**

**Hazard Statements:**

**H315** - Causes skin irritation.

**H317** – May cause an allergic skin reaction.

**H319** - Causes serious eye irritation.

**H335** - May cause respiratory irritation.

**H351** – Suspected of causing cancer.

**H372** - Cause damage to respiratory system, eyes, brain and nervous system through prolonged or repeated exposure.

**H400** - Very toxic to aquatic life.

**H412** - Harmful to aquatic life with long lasting effects.

**Precautionary Statements:**

**P201** – Obtain special instructions before use.

**P202** – Do not handle until all safety precautions have been read and understood.

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

**P260** – Do not breathe dust/fume/gas/mist/vapors/spray.

**P264** – Wash skin and hair thoroughly after handling.

**P270** – Do not eat, drink or smoke when using this product.

**P271** – Use only outdoors or in well-ventilated area.

**P272** – Contaminated work clothing should not be allowed out of the workplace.

**P273** - Avoid release to the environment.

**P280** – Wear protective gloves/eye protection/face protection.

**P281** – Use personal protective equipment as required.

**P302+P352** – IF ON SKIN: Wash with plenty of soap and water.

**P304+P341** – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**P305+P351+P338** – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**P308+P313** – IF exposed or concerned: Get medical advice/attention.

**P333+P313** – IF skin irritation or rash occurs: Get medical advice/attention.

**P337+P313** – IF eye irritation persists: Get medical advice/attention.

**P312** – Call a POISON CENTER or doctor/physician if you feel unwell.

**P314** – Get medical advice/attention if you feel unwell.

**P362** - Take off contaminated clothing and wash before reuse.

**P363** – Wash contaminated clothing before reuse.

**P391** - Collect spillage.

**P403+P233** – Store in a well-ventilated place. Keep container tightly closed.

**P405** – Store locked up.

**P501** – Dispose of contents/container in accordance with local/regional/national/international regulations.









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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Identity	CAS #	Range %	OSHA PEL (mg/m3)	ACGIH-TLV (mg/m3)	Carcinogenicity	EU Classification (67/548/EEC)	CLP/GHS Classification (1272/2008)
Molybdenum	7439-89-6	1-32	15	10	No	(F) R11	(H228) Flam. Sol. 2
Calcium Carbonate	1317-65-3	1-11	5 (as CaO)	10	No	Not Dangerous	Not Hazardous
#Chromium	7440-47-3	<1-40	1.0 (Metal) .05 (Cr II & Cr III Compounds) 0.005 (Cr VI Compounds) 0.01 (Cr VI Insoluble Compounds)	0.5 (Metal) 0.5 (Cr III Compounds) 0.05 Cr VI Soluble Compounds)	Yes	Not Dangerous	(H400) Aquatic Acute 1
Tungsten	7440-33-7	1-15	5	5	No	(F) R11	(H315) Skin Irrit. 2
#Copper	7440-50-8	1-11	0.1 (as fume)	0.2 (as fume)	No	(F) R11 (N) R50	(H228) Flam. Sol. 2 (H400) Aquatic Acute 1
Calcium Fluoride	7789-75-5	1-11	2.5 ( as F)	2.5 ( as F)	No	 (Xi) R36/37/38	(H315) Skin Irrit. 2 (H319) Eye Irrit.. 2A (H335) STOT SE 3
#Manganese	7439-96-5	1-11	5	1	No	(Xn) R48	(H373) STOT RE-2
Graphite	7782-42-5	1-11	15 (Total Dust)	2	No	(Xi) R36/37	(H319) Eye Irrit.. 2A (H335) STOT SE 3
#Aluminum	7429-90-5	1-11	15	10	No	(F) R11-15	(H228) Flam. Sol.1 (H261) Water-react. 3
Sodium Silicate	134409-8	1-11	NR	5	No	(C) R34 (Xi) R37	(H314) Skin Corr. 1B (H335) STOT SE 3
#Nickel	7440-02-0	30-73	1	1	Yes	Carc. Cat. 3 (Xn) R40 (Xi) R43 (T) R48/23	(H317) Skin Sens. 1 (H351) Carc. 2 (H372) STOT RE 1
Bentonite	1302-78-9	1-11	NR	NR	No	Not Dangerous	Not Hazardous
Iron	7439-89-6	1-11	10 ( as Fe2O3 )	10 (as Fe2O3)	No	Not Dangerous	Not Hazardous
Iron Oxide	1317-61-9	1-11	15	10	No	(Xi) R36/37/38	(H315) Skin Irrit. 2 (H319) Eye Irrit. 2A (H335) STOT SE 3

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Identity	CAS #	Range %	OSHA PEL (mg/m3)	ACGIH-TLV (mg/m3)	Carcinogenicity	EU Classification (67/548/EEC)	CLP/GHS Classification (1272/2008)
Dolomite	16389-88-1	1-11	15	10	No	<a href="#">Not Dangerous</a>	Not Hazardous
Titanium	7440-32-6	0.2-3.5	NR	10 (as TiO <sub>2</sub> )	No	<a href="#">Not Dangerous</a>	Not Hazardous
Vanadium	1314-62-1	.06-1	0.05	0.05	No	<a href="#">Not Dangerous</a>	Not Hazardous
Magnesium Carbonate	546-93-0	1-11	15	10	No	<a href="#">Not Dangerous</a>	Not Hazardous
Strontium Carbonate	1633-05-2	5-15	15	10	No	<a href="#">Not Dangerous</a>	Not Hazardous
Barium Fluoride	7787-32-8	1-11	.05 (total dust) 2.5 (as F)	.05 (total dust) 2.5 (as F)	No	<a href="#">(Xn) R20/22</a>	(H302) Acute Tox. 4 (H302) Acute Tox. 4  
Barium Carbonate	513-77-9	5-15	0.05	0.5	No	<a href="#">(Xn) R22</a> 	(H302) Acute Tox. 4 
Silicon	7440-21-3	0.2-2	15	Withdrawn	No	<a href="#">(F) R11</a> 	(H228) Flam. Sol. 2 
Niobium	7440-03-1	1-11	NR	NR	No	<a href="#">(F) R17</a> 	(H250) PYRO. Sol.1 

**Important:** This section covers the materials of which the products manufactured. The fumes and gases produced during normal use of this product are covered in section 10. The term "Hazardous" in "Hazardous Material" should be interpreted as a term required and defined in OSHA Hazard Communication Standard 29CFR 1910-1200 and it does not necessarily imply the existence of hazard. The chemicals or compounds reportable by Section 313 of SARA are marked by the symbol #.

### 4. FIRST AID MEASURES

**Inhalation:** Remove to fresh air immediately or administer oxygen. Get medical attention immediately.

**Skin:** Flush skin with large amounts of water. If irritation develops and persists, get medical attention.

**Eye:** Flush eyes with water for at least 15 minutes. Get medical attention.

**Ingestion:** Obtain medical attention immediately if ingested.

**Electric Shock:** Disconnect and turn off the power. Use a nonconductive material to pull victim away from contact with live parts or wires. Immediately contact a physician.

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## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Welding arcs and sparks can ignite combustible and flammable materials. Use the extinguishing media recommended for the burning material and fire situation.

**Unsuitable Extinguishing Media:** Not applicable

**Specific Hazards Arising From Chemical:** Nickel/Nickel oxides, Iron oxides, Calcium oxide, Hydrogen fluoride, Carbon oxides, Barium oxides, Aluminum oxide, Silicon oxide, Sodium oxides.

**Protective Equipment:** Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Refer to section 8.

**Environment Precautions:** Refer to section 13.

**Cleaning Measures:** Solid objects may be picked up and placed into a container. Liquids or pastes should be scooped up and placed into a container. Wear proper protective equipment while handling these materials. Do not discard as refuse.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling:** Handle with care to avoid stings or cuts. Wear gloves when handling welding consumables. Avoid exposure to dust. Do not ingest. Some individuals can develop an allergic reaction to certain materials. Retain all warning and identity labels.

**Conditions for Safe Storage:** Store in dry place in closed packages. Keep separate from chemical substances like acids and strong bases, which could cause chemical reactions.

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

**Engineering Controls:** Avoid exposure to welding fumes, radiation, spatter, electric shock, heated materials and dust. Ensure sufficient ventilation, local exhaust, or both, to keep welding fumes and gases from breathing zone and general area. Keep work place and protective clothing clean and dry. Train welders to avoid contact with live electrical parts and insulate conductive parts. Check condition of protective clothing and equipment on a regular basis.

**Exposure limits:** Use industrial hygiene equipment to ensure that exposure does not exceed applicable national exposure limits. The limits defined under section 3 can be used as guidance. Unless noted, all values are for 8 hour time weighted average. For information about welding fume analysis refer to section 10.

Biological limits: No available data

### **Personal protection:**

**Respiratory protection:** Use an air purifying dust respirator when welding or brazing in a confined space, or when local exhaust or ventilation is not sufficient to keep exposure values within safe limits.

**Hands protection:** Wear appropriate gloves to prevent skin contact.

**EN 12477:** Protection gloves for welders

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Requirements (EN Levels)	Type A	Type B
Abrasion (Cycles)	2 (500)	1 (100)
Cut (Factor)	1 (1.2)	1 (1.2)
Tear (Newton)	2 (25)	1 (10)
Puncture (Newton)	2 (60)	1 (20)
Burning Behavior	3	2
Contact Heat	1	1
Convective Heat	2	-
Small Splashes	3	2
Dexterity	1 (11)	4 (6.5)

Type B gloves are recommended when high dexterity is required as for TIG welding, while type A gloves are recommended for other welding processes. The contact temp (°C) is 100 and the threshold time (seconds) >15.

**Eyes protection:** Welder's helmet or face shield with color absorbing lenses. Shield and filter to provide protection from harmful UV radiation, infra red and molten metal approved to standard EN379. Filter shade to be a minimum of shade 9.

**Skin protection:** Heat-resistant protective clothing. Wear safety boots, apron, arm and shoulder protection. Keep protective clothing clean and dry. Clothing should be selected to suit the level, duration and purpose of the welding activity.

Class 1	
Impact of Spatter	15 Drops
Heat Transfer (radiation)	RHTI 24 ≥ 7 seconds
Process	<p style="text-align: center;">Manual welding with light formation of spatter and drops</p> <ul style="list-style-type: none"> <li>• Gas Welding</li> <li>• TIG Welding</li> <li>• MIG Welding</li> <li>• Micro plasma welding</li> <li>• Brazing</li> <li>• Spot Welding</li> <li>• MMA Welding (with rutile-covered electrode)</li> </ul>
Environmental Conditions	<p style="text-align: center;">Operation of machines</p> <ul style="list-style-type: none"> <li>• Oxygen cutting machines</li> <li>• Plasma cutting machines</li> <li>• Resistance welding machines</li> <li>• Machines for thermal spraying</li> <li>• Bench welding</li> </ul>

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Class 2	
Impact of Spatter	25 Drops
Heat Transfer (radiation)	RHTI 24 $\geq$ 16 seconds
Process	Manual welding with heavy formation of spatter and drops <ul style="list-style-type: none"><li>• MMA welding (with basic or cellulose-covered electrodes)</li><li>• MAG welding (with CO<sub>2</sub> or mixed gases)</li><li>• MIG Welding (with high current)</li><li>• Self shielded flux core arc welding</li><li>• Plasma cutting</li><li>• Gouging</li><li>• Oxygen cutting</li><li>• Thermal spraying</li></ul>
Environmental Conditions	Operation of machines <ul style="list-style-type: none"><li>• In confined spaces</li><li>• At overhead welding/cutting or in comparable constrained positions</li></ul>

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Solid.

**Color:** Black, Red or Brown.

**Odor:** Odorless

**Odor Threshold:** Not Available

**pH Value:** Not Available

**Melting Point/Melting Range:** >2300 Degrees F, >1300 Degrees C

**Freezing Point:** Not Available

**Boiling Point/Boiling Range:** Not Available

**Flash point:** Not Available

**Evaporation Rate:** Not Available

**Self-in flammability:** Not Available

**Explosion limits:** Not Available

**Vapor pressure:** Not Available

**Vapor density:** Not Available

**Density at 20°C:** Not Available

**Relative density:** 6-9 g/cm<sup>3</sup>

**Solubility:** Insoluble in water.

**Partition coefficient:** Not Available

**Auto-ignition temperature:** Not Available

**Decomposition temperature:** Not Available

**Other Information:** No available data.

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## 10. STABILITY AND REACTIVITY

**Chemical Stability:** This product is stable under normal conditions.

**Hazardous Reactions:** Contact with chemical substances like acids or strong bases cause generation of gas.

**Conditions to Avoid:** Copper can form an unstable acetylide if in contact with acetylene gas.

**Incompatible Materials:** Reacts with acid.

**Hazardous Decomposition Products:** When this product is used in a welding process, hazardous decomposition product would include those from volatilization, reaction or oxidation of the material listed in section 3 and those from the base metal and coating. The amount of fumes generated from this product varies with welding parameters and dimensions. Reasonably expect fume constituents of this product would include fluorides and oxides of metal such as iron, manganese, nickel, calcium, sodium and silicon.

Refer to applicable national exposure limits for fume compounds, including those exposure limits for fume compounds found in section 3. Manganese and nickel have low exposure limits, in some countries, which may be easily exceeded. Reasonably expect gaseous products would include carbon oxides, nitrogen oxides and ozone. Air contaminants around the welding area can be affected by the welding process and influence the composition and quality of fumes and gases produced.

## 11. TOXICOLOGICAL INFORMATION

**Signs and Symptoms of Overexposure:** Inhalation of welding fumes and gases can be dangerous to your health.

Classification of welding fumes is difficult because of varying base materials, coatings, air contaminants and processes. The Internal Agency for Research on Cancer has classified welding fumes as possible carcinogenic to humans (Group 2B).

**Acute Effects:** Overexposure to welding fumes may result in symptoms like metal fume fever, dizziness, nausea, dryness or irritation of the nose, throat or eyes. Copper: Acute exposure to copper may cause capillary damage, headache, cold sweat, weak pulse, kidney and liver damage, central nervous system excitation followed by depression, jaundice, convulsions, paralysis and coma. Death may occur from shock or renal failure.

LD/LC50 Values that are relevant for classification		
Bentonite 1302-78-9		
Intravenous	LD50	35 mg/kg (rat)
	LC50	19000 mg/l (96h) (rainbow trout)

LD/LC50 Values that are relevant for classification		
Calcium Carbonate 1317-65-3		
Oral	LD50	>2000 mg/kg (rat)
Inhalation	LC50	>3 mg/L/4h. (rat)
Dermal	LD50	>2000 mg/kg (rat)

LD/LC50 Values that are relevant for classification		
Chromium 7440-47-3		
Oral	LD50, LCD50	19.8 ->15900 mg/kg (rat)
Inhalation	LC50	>888 mg/L/4 hr. (rat)



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LD/LC50 Values that are relevant for classification		
Calcium Fluoride 7789-75-5		
Oral	LD50	>2000 mg/kg (rat)
Inhalation	LC50	>5070 mg/m <sup>3</sup> /4 hr. (rat)

LD/LC50 Values that are relevant for classification		
Manganese 7439-96-5		
Oral	LD50, LCD50	9000 mg/kg (rat)

LD/LC50 Values that are relevant for classification		
Nickel 7440-02-0		
Oral	LD50	>9000 mg/kg (rat)
Inhalation	LC50	>10.2 mg/L/1 hr. (rat)

LD/LC50 Values that are relevant for classification		
Barium Carbonate 513-77-9		
Oral	LD 50	418 mg/kg (rat)
	LC50	6950 mg/l (96h) (mosquito fish)

LD/LC50 Values that are relevant for classification		
Iron 7439-89-6		
Oral	LD50	30000 mg/kg (rat)

LD/LC50 Values that are relevant for classification		
Copper 7440-50-8		
Oral	LD50	>2000 mg/kg (rat)
Inhalation	LC50	5.1 mg/L/4h. (rat)
Dermal	LD50	>2000 mg/kg (rat)

LD/LC50 Values that are relevant for classification		
Barium Fluoride 7787-32-8		
Oral	LD 50	250 mg/kg (rat)
Intraperitoneal	LD50	29.91 mg/kg (mouse)

LD/LC50 Values that are relevant for classification		
Aluminum 7429-90-5		
Oral	LD50	>15900 mg/kg (rat)
Inhalation	LC50	>.888 mg/L/4 hr. (rat)
	LC50	.12 mg/l (96) (rainbow trout)

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LD/LC50 Values that are relevant for classification		
Iron Oxide 1317-61-9		
Oral	LD50	>10000 mg/kg (rat)

**Chronic Effects:** Overexposure to welding fumes may affect pulmonary function and eyes. Pre-existing pulmonary diseases (e.g., bronchitis, asthma) may be aggravated by inhalation exposure, particularly as fume. Chronic copper poisoning is typified by hepatic cirrhosis, brain damage and demyelination, kidney defects and copper deposition in the cornea as exemplified by humans with Wilson's disease. It has also been reported that copper poisoning has led to hemolytic anemia and accelerates arteriosclerosis. Prolonged inhalation of nickel (Classified 2B by IARC and R by NTP) above safe exposure limits may cause cancer. Long term inhalation exposure to iron (oxide fume or dust) can cause siderosis.

## 12. ECOLOGICAL INFORMATION

**Toxicity:** Welding rods contain metals which are considered to be very toxic towards aquatic organisms. Finely divided welding rods are therefore considered harmful to aquatic organisms.

**Persistence and Degradability:** The welding rods consist of elements that can not degrade any further in the environment.

**Bio accumulative Potential:** Welding rods contain heavy metals which bio accumulates in the food chain. The following figures are the bio concentration factor (BCF) for the substances on their own.

**BCF:**

Chromium, BCF: 200

Manganese, BCF: 59052

Nickel, BCF: 16

Iron, BCF: 140000

Aluminum, BCF: 18

Copper, BCF: 29

**Mobility in Soil:** Welding rods are not soluble in water or soil. Particles formed by working welding rods can be transported in the air.

**Other Adverse Effects:** In massive form, welding rods present no hazards to the aquatic environment.

Welding materials could degrade into components originating from the materials used in the welding process. Avoid exposure to conditions that could lead to accumulation in soils or groundwater. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 13. DISPOSAL CONSIDERATIONS

**Product:** For product elimination, consult recycling companies or appropriate local authority.

**USA RCRA:** In their intended manner of use, this product should not be released into the environment and may cause long lasting harmful effects to aquatic life. Residue from welding consumables and processes could degrade and accumulate in soils and groundwater.

**Package:** May be disposed in approved landfills provided local regulations are observed.

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## 14. TRANSPORT INFORMATION

**UN-number:** Welding rods are not classified as dangerous goods for transport and have no UN number.

**UN proper shipping name:** Welding rods are not classified as dangerous goods for transport and has no UN proper shipping name.

**Transport hazard class:** Welding rods are not classified as dangerous goods for transport.

**Packing group:** There are not any special precautions with which a user should or must comply or be aware of in connection with transport or conveyance either within or outside premises.

**Environmental hazards:** Welding rods are not environmentally hazardous according to the criteria of the UN Model Regulations (as reflected in the IMDG Code, ADR, RID and AND) and/or a marine pollutant to the IMDG Code.

**Special precautions for users:** There are not any special precautions which a user should or must comply or be aware of in connection with transport or conveyance either within or outside premises of the welding rod.

**Transport in Bulk According to Annex III MARPOL 73/78 and the IBC Code:** Welding rods in massive form do not subject under MARPOL 73/78 and the IBC Code. Not applicable – product is transported only in packaged form.

## 15. REGULATORY INFORMATION

**Safety, health and environment regulations/legislation specific for the substance or mixture:** Read and understand the manufacturer's instructions, your employer's safety practices and the health and safety instructions on the label. Observe any federal and local regulations. Take precautions when welding and protect yourself and others.

**Warning:** Welding fumes and gases are hazardous to your health and may damage lungs and other organs. Use adequate ventilation. Electric shock can kill. Arc rays and sparks can injure eyes and burn skin. Wear correct hand, head, eye and body protection.

**Chemical safety assessment:** No

**USA:** Under the OSHA Hazard Communication Standard, this product is considered hazardous. This product contains or produces a chemical known to the state of California to cause cancer and birth defects (or other reproductive harm). (California Health & Safety Code § 25249.5 et seq.) United States EPA Toxic Substance Control Act: All constituents of this product are on the TSCA inventory list or are excluded from listing.

### EPCRA/SARA Title III Toxic Chemicals

The following metallic components are listed as SARA 313 "Toxic Chemicals" and potential subject to annual SARA reporting. See Section 3 for weight percentage.

Ingredient Name	Disclosure Threshold
Aluminum	15 mg/m <sup>3</sup>
Manganese	5 mg/m <sup>3</sup>
Chromium	1.0 (Metal)
Copper	0.1 mg/m <sup>3</sup> (as Fume)
Nickel	1 mg/m <sup>3</sup>

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## 16. OTHER INFORMATION

The information in this document is believed to be correct as of the date issued. However, no warranty is expressed to be implied regarding the accuracy or completeness of this information. This information and product are furnished on the condition that the person receiving them shall make his own determinations as to the suitability of the product for his particular purpose and on the condition that he assumes the risk of his use thereof.

This Material Safety Data Sheet complies with the EC directives 91/155/EEC and 93/112/EEC, including modifications 2001/58/EC.

Complies with OSHA Communication Standard 29 CFR 1910.1200 and Superfund Amendments and Reauthorization Act (SARA) of 1986 Public Law 99-499

### Hazard Statements:

**H228** - Flammable solid.

**H250** - Catches fire spontaneously if exposed to air.

**H261** - In contact with water releases flammable gas

**H302** - Harmful if swallowed.

**H314** - Causes severe skin burns and eye damage.

**H315** - Causes skin irritation.

**H317** - May cause an allergic skin reaction.

**H319** - Causes serious eye irritation.

**H332** - Harmful if inhaled.

**H335** - May cause respiratory irritation.

**H351** - Suspected of causing lung cancer.

**H372** - Causes damage to organs through prolonged or repeated exposure.

**H373** - May cause damage to organs through prolonged or repeated exposure.

**H400** - Very toxic to aquatic life.

### R-Phrases:

**R11** - Highly Flammable.

**R15** - Contact with water liberates extremely flammable gases.

**R20/22** - Harmful by inhalation and if swallowed.

**R34** - Causes burns.

**R36/37/38** - Irritating to eyes, respiratory system and skin.

**R40** - Limited evidence of a carcinogenic effect.

**R43** - May cause sensitization by skin contact.

**R48** - Danger of serious damage to health by prolonged exposure.

**R48/20** - Harmful: danger of serious damage to health by prolonged exposure through inhalation.

**R48/23** - Toxic: Danger of serious damage to health by prolonged exposure through inhalation.

**R50** - Toxic to aquatic organisms.

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**S-Phrases:**

**S1/2** - Keep locked up and out of reach of children.

**S15** – Keep away from heat.

**S16** - Keep away from source of ignition-No smoking.

**S22** - Do not breathe dust.

**S24/25** - Avoid contact with skin and eyes.

**S26** – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**S28** – After contact with skin, wash immediately with plenty of water.

**S36/37/39** – Wear suitable protective clothing, gloves and eye/face protection.

**S43** – In case of fire, use fire-fighting equipment on basis class D.

**S45** - In case of accident or if you feel unwell, seek medical advise immediately (show the label where possible).

**S61** - Avoid release to the environment.

End of the document.