Section 1 – Product and Company Identification

1.1	**GHS Product Identifier**	:	Sodium Acetylide Dispersion in Xylenes
	Other means of identification	:	Ethynylsodium
	Product Number	:	31239
	Chemical Formula	:	Sodium Acetylide - C_2HNa Xylene – C_8H_{10}
	CAS Number	:	Sodium Acetylide: 1066-26-8 Xylene: 1330-20-7
	EC Number	:	Sodium Acetylide: 213-908-9 Xylene: 215-535-7
1.2	**Recommended use**	:	Laboratory chemicals, Manufacture of substances
1.3	**Supplier's detail**	:	Wiley Companies. 1245 South 6th Street Coshocton, Ohio 43812. (740) 622-0755.
1.4	**Emergency Telephone number**	:	(800) 633-8253.
	International number	:	(801) 629-0667.

Section 2 – Hazards Identification

2.1 GHS Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 3)
Substances and mixtures, which in contact with water, emit flammable gases (Category 2)
Acute toxicity, Oral (Category 5)
Acute toxicity, Inhalation (Category 4)
Acute toxicity, Dermal (Category 4)
Skin corrosion (Category 1B)
Serious eye damage (Category 1)
Acute aquatic toxicity (Category 2)
Chronic aquatic toxicity (Category 2)

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word	**Danger**
Hazard statement(s)	
H226	Flammable liquid and vapour.
H261	In contact with water releases flammable gases.
H312 + H332	Harmful in contact with skin or inhaled.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.
Precautionary statement(s)	
P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P223	Keep away from any possible contact with water, because of violent reaction and possible flash fire
P231 + P232	Handle under inert gas. Protect from moisture.
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.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310	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.
P335 + P334	Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.
P363	Wash contaminated clothing before reuse.
P370 + P378	In case of fire: Use dry chemical, alcohol resistance foam or dry sand for extinction.
P391	Collect spillage.
P402 + P404	Store in a dry place. Store in a closed container.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

P501	Dispose of contents/container to an approved waste disposal plant.

2.3 Hazards not otherwise classified or not covered by GHS

Water reactive. Reacts violently with water.

Section 3 - Composition / Information on Ingredients

Substance/Mixture

Chemical name : Sodium acetylide

Synonyms : Ethynylsodium

Formula : Sodium acetylide - C_2HNa
Xylene – C_8H_{10}

CAS Number : Sodium acetylide: 1066-26-8
Xylene: 1330-20-7

EC Number : Sodium acetylide: 213-908-9
Xylene: 215-535-7

Hazardous components

Component	Classification	Concentration
Sodium acetylide	Water reactive (Category 2) Skin corrosive (Category 1B) Acute toxicity, Dermal (Category 4) Serious eye damage (Category 1)	< 20%
Xylene	Flammable liquid (Category 3) Acute toxicity, Inhalation (Category 4) Acute aquatic toxicity (Category 2) Chronic aquatic toxicity (Category 2)	> 80%

Section 4 - First Aid Measures

4.1 Description of necessary first aid measures

If inhaled

Move person to fresh air. Seek appropriate medical attention. If required, provide artificial respiration.

In case of skin contact

Flush with copious amounts of water for at least fifteen minutes. Seek appropriate medical attention.

In case of eye contact
Flush with copious amounts of water for at least fifteen minutes. Seek appropriate medical attention.

If ingested
Do NOT induce vomiting. Never give liquids to an unconscious person. Rinse mouth out with water. Seek appropriate medical attention.

4.2 Most important symptoms and effects, both acute and delayed
The most important know symptoms and effects are described in the labeling section.

4.3 Indication of immediate medical attention and special treatment needed, if necessary
No data available.

Section 5 – Fire Fighting Measure

5.1 Extinguishing media
Suitable extinguishing media
Dry powder or dry sand.

Unsuitable extinguishing media
Water.

5.2 Specific hazards arising from the chemical
Sodium oxides, Carbon oxides.

5.3 Special protective equipment for fire fighters
Wear self-contained breathing apparatus. Wear fully protective impervious suit.

5.4 Special precautions for fire fighters
Do not release runoff from fire control methods to sewers or waterways.

Section 6 – Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures.
Use personal protective equipment. Ensure adequate ventilation. Avoid breathing vapours. Keep away from ignition sources.

6.2 Environmental precautions

Do not allow to penetrate ground/soil. Do not release into sewers or waterways. Prevent further leakage if possible.

6.3 Methods and materials for containment and cleaning up

Dike far ahead of liquid spill for later disposal. Keep away from ignition sources. Absorb with dry sand, diatomite, or sawdust.

Section 7 – Handling and Storage

7.1 Precautions for safe handling

Wear all appropriate personal protective equipment. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition. No Smoking.

7.2 Conditions for safe storage, including any incompatibilities

Store material in DOT approved containers. Keep container tightly closed in a cool, dry place. Do not allow material to come into contact with water.

Section 8 – Exposure Controls / Personal Protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Xylene, CAS No. 1330-20-7	OSHA PEL 100 ppm OSHA STEL 150 ppm

8.2 Appropriate engineering controls

Engineering Controls:
Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area. Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs.

8.3 Individual protection measures

Administrative Controls:
Handle in accordance with good industrial hygiene and safety practice. When workplace conditions warrant respirator use, follow a respiratory protection program that meets OSHA 29 CFR 1910.134, ANSI Z88.2, or MSHA 30 CFR 72.710 (where applicable). Use an air-supplied or air-purifying cartridge if the action level is exceeded. Ensure that the respirator has the appropriate protection factor for the exposure level. If cartridge type respirators are used, the cartridge must be appropriate for the chemical exposure (e.g., an organic vapor

cartridge). For emergencies or instances with unknown exposure levels, use a self-contained breathing apparatus (SCBA).

Wear protective eyeglasses or chemical safety goggles, per OSHA eye and face protection regulations (29 CFR 1910.133).
Wear face shield and safety glasses as approved under appropriate government standards (NIOSH or EN 166).
Wear chemically protective gloves.
Wear a chemically protective suit.
Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.
Launder contaminated work clothes before reuse.

Section 9 – Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance	: Dispersion
Odour	: No data available.
Odour Threshold	: No data available.
pH	: No data available.
Melting point/freezing point	: No data available.
Initial boiling point and boiling point range	: No data available.
Flash point	: 25° C (77° F) – closed cup (Xylene)
Evaporation rate	: No data available.
Flammability (solid, gas)	: No data available.
Upper/lower flammability Or explosive limits	: 1.1 – 7% (Xylene)
Vapour pressure	: No data available.
Vapour density	: No data available.
Relative density	: 0.890 gm/ml
Water solubility	: Water reactive
Partition coefficient: n-octanol/water	: No data available.
Auto-ignition Temperature	: No data available.

Decomposition Temperature	: No data available.
Viscosity	: No data available.
Molecular weight	: No data available.

Section 10 – Stability and Reactivity

10.1 Reactivity
Water reactive

10.2 Chemical stability
No data available

10.3 Possibility of hazardous reactions
Water reactive

10.4 Conditions to avoid
Water introduction

10.5 Incompatible materials
Strong oxidizing agents, water

10.6 Hazardous decomposition products
Acetylene, carbon oxides

Section 11 – Toxicological Information

11.1 Information on toxicological effects

Acute toxicity
No data available

Skin corrosion/irritation
Skin corrosion

Serious eye damage/eye irritation
Serious eye damage

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

ARC : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH : No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH

NTP : No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA : No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

Specific target organ toxicity – single exposure
No data available

Specific target organ toxicity – repeated exposure
No data available

Aspiration hazard
No data available

Information on the likely routes of exposure
Skin exposure, inhalation

Symptoms related to the physical, chemical and toxicological characteristics
No data available

Delayed and immediate effects and also chronic effects from short and long-term exposure
No data available

Numeric measures of toxicity
No data available

Section 12 – Ecological Information

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 13 – Disposal Considerations

13.1 Disposal Methods
Contact a licensed professional waste disposal service to dispose of this material

Section 14 – Transport Information

	DOT	IMDG	IATA
UN number	3399	3399	3399
Un proper shipping name	Organometallic substance, liquid, water-reactive, flammable, n.o.s.(Xylene, Sodium acetylide)	ORGANOMETALLIC SUBSTANCE, LIQUID, WATER-REACTIVE, FLAMMABLE, N.O.S. (XYLENE, SODIUM ACETYLIDE), MARINE POLLUTANT	Organometallic substance, liquid, water-reactive, flammable, n.o.s. (Xylene, Sodium acetylide)
Transport hazard class	4.3 (3)	4.3 (3)	4.3 (3)
Packing group	I	I	I
Marine pollutant	No	Yes	-

Section 15 – Regulatory Information

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313

SARA 311/312 Hazards
Fire hazard, Acute health hazard.

Section 16 – Other Information

	HMIS		
Health - Chronic			NFPA
Health Hazard	3	Health Hazard	3
Flammability	3	Fire Hazard	3
Physical	2	Reactivity	2

Prepared By:
Wiley Companies.
The EH&S Department.

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