

Performance Enhancer

A/C System Performance Enhancer

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g), Rev. 2012 and GHS Rev 03.

1. Identification

Product identifier

Trade name Performance Enhancer

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

Product description Synthetic Performance Enhancer

Application of the substance /
the mixture A/C System Performance Enhancer

Details of the supplier of the safety data sheet

Manufacturer/supplier Santech Industries
1401 Valley View Lane #100, Irving, TX 75061
817-509-2518

Emergency telephone number 817-509-2518

2. Hazard(s) Identification

Classification of the substance or mixture Acute Tox. 4 - H302. Harmful if swallowed
Skin Irrit 2. - H315. Causes skin irritation
Eye Irrit 2B - H320, Causes eye irritation
Skin Sens - H317. May cause an allergic reaction

Label elements

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS07

Signal word

Warning

Hazard-determining components of labeling

91-20-3 Naphthalene

Hazard statements

Harmful if inhaled.
Causes eye irritation.
May cause an allergic skin reaction.

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2. Hazard(s) Identification (continued)

Precautionary statements	Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area. Wear protective gloves. Avoid release to the environment. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see on this label). IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center/doctor if you feel unwell. Wash contaminated clothing before reuse. IF exposed or concerned: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. If on skin: Wash with plenty of water. Dispose of contents/container in accordance with local/regional/national/international regulations.
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Classification system

NFPA ratings (scale 0-4)



Health=1; Fire=1; Reactivity=0

HMIS-ratings (scale 0 - 4)

HEALTH	1
FIRE	1
REACTIVITY	0

Health=1; Fire=1; Reactivity=0

Other Hazards

None known

3. Composition / Information on Ingredients

Chemical characterization:

Mixtures

Description:

Mixture of the substances listed below with nonhazardous additions.

Dangerous Components

91-20-3

Napthalene

⚠ Acute Tox. 4, Skin Irrit. 2, H315, Eye Irrit. 2B, H320, Skin Sens. 1, H317 ≤ 2.5%

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4. First-aid Measures

Description of first aid measures

General information	Symptoms may even occur after several hours; therefore observe area effected for at least 48 hours after the accident. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
After inhalation	Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist. If any breathing problems occur during use, LEAVE THE AREA and get fresh air. If problems remain or occur later, IMMEDIATELY get medical attention. In case of unconsciousness, place patient securely on side position for transportation. If product is mixed with acids or oxidizers, it may react and release Hydrogen Sulfide gas. Use caution and avoid mixing product with any incompatible materials.
After skin contact	If skin irritation continues, consult a doctor.
After eye contact	Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.
After swallowing	If swallowed and symptoms occur, consult a doctor.
Information for doctor	
Most important symptoms and effects, both acute and delayed	No further relevant information available.
Indication of any immediate medical attention and special treatment needed	No further relevant information available.

5. Fire-fighting Measures

Extinguishing media

Suitable extinguishing agents	Water, carbon dioxide, foam or dry extinguishing media. Use fire fighting measures that suit the environment.
Special hazards arising from the substance or mixture	If incinerated, product may release toxic gases including: Carbon Oxides, Sulfur oxides, Hydrogen Sulfide gas and Nitrogen Oxides (NOx).
Advice for firefighters	
Protective equipment	Mouth respiratory protective device. As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Particular danger of slipping on leaked/spilled product. Keep away from ignition sources. Avoid contact with skin, eyes and clothing. Proper protective equipment should be used.
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.

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6. Accidental Release Measures (continued)

Methods and material for containment and cleaning up	After material has been absorbed, area may be flushed with water or wet-brushed to clean. Absorb with liquid-binding material (ie. sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation. Dispose of the collected material according to regulations.
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

Handling

Precautions for safe handling	Keep away from sources of ignition. Store in cool, dry place in tightly closed receptacles. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
Information about protection against explosions and fires	No special measures required.
Conditions for safe storage, including any incompatibilities	Store away from strong acids, strong bases and strong oxidizing agents.

Storage

Requirements to be met by storerooms and receptacles:	No special requirements.
Information about storage in one common storage facility	Not required.
Further information about storage conditions	Keep receptacle tightly sealed.
Specific end use(s)	No further relevant information available.

8. Exposure Controls / Personal Protection

Additional information about design of technical systems	No further data; see section 7.
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Control parameters

Ingredients with limit values that require monitoring at workplace	This product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
DNELs	No further relevant information available
PNECs	No further relevant information available
Additional Information	The list value during the making were used as a basis

Components with occupational exposure limits

Additional information:	The lists that were valid during the creation were used as basis.
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Exposure controls

Personal protective equipment

General protective and hygienic measures	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes and skin.
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8. Exposure Controls / Personal Protection (continued)

Breathing equipment

Not required.

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. Select glove material based on penetration times, rates of diffusion and 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 can not 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 determined and observed by the manufacturer of the protective gloves.

Eye protection

Safety glasses

9. Physical and Chemical Properties

Information on basic physical and chemical properties

General Information

Appearance

Form	Liquid
Color	Clear amber
Odor	Characteristic
Odor threshold	Not determined.
pH-value	Not determined.

Change in condition

Melting point/Melting range	Not determined.
Boiling point/Boiling range	149°C (300°F)
Flash point	138°C (280°F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature	350°C (662°F)
Decomposition temperature	Not determined.
Auto igniting	Product is not self-igniting.
Danger of explosion	Product does not present an explosion hazard.

Explosion limits

Lower	Not determined.
Upper	Not determined.
Vapor pressure	Not determined.
Density @ 20°C (68°F)	0.91 g/cm ³ (7.594 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.

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9. Physical and Chemical Properties (continued)

Evaporation rate Not determined.

Solubility in / Miscibility with water Insoluble.

Partition coefficient (n-octanol/water): Not determined.

Viscosity

Dynamic Not determined.

Kinematic Not determined.

Solvent content

Organic solvents 0.0 %

Other information No further relevant information available.

10. Stability and Reactivity

Reactivity Stable under normal conditions

Chemical stability Stable under normal conditions.

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid No further relevant information available.

Incompatible materials Strong acids, strong bases and strong oxidizing agents.

Hazardous decomposition products Carbon Oxides, Sulfur oxides, Hydrogen Sulfide gas and Nitrogen Oxides (NOx).

11. Toxicological Information

Information on toxicological effects The toxicity of this product is unknown.

Acute toxicity

LD/LC50 values that are relevant for classification

91-20-3 Naphthalene
Oral: LD50 490 mg/kg (rat)
Dermal: LD50 5000 mg/kg (rat)
Inhalative: LC50/4 h 0.34 mg/l (rat)

Primary irritant effect:

on the skin: May cause an allergic skin reaction.

on the eye: Irritating effect. Causes serious eye irritation.

Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations: Harmful. Irritant.

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12. Ecological Information

Toxicity

Aquatic toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.
91-20-3 Naphthalene: EC50 1.00-3.40 mg/l (daphnia)

Persistence and degradability No further relevant information available

Behavior in environmental systems

Bioaccumulative potential No further relevant information available

Mobility in soil No further relevant information available.

Ecotoxicological effects

Remark No further relevant information available

Additional ecological information

General notes: Do not allow product to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment

PBT Not applicable.

vPvB Not applicable.

Other adverse effects No further relevant information available.

13. Disposal Considerations

Waste Treatment Methods

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

Uncleaned packagings

Recommendation Disposal must be made according to official regulations. Dispose of as unused product.

14. Transportation Information

UN-Number

DOT, ADR, IMDG, IATA Non-Regulated Material

UN proper shipping name

DOT, ADR, ADN, IMDG, IATA Non-Regulated Material

Transport hazard class(es)

DOT, ADR, ADN, IMDG, IATA Class: Non-Regulated Material

Packing group

DOT, ADR, IMDG, IATA Non-Regulated Material

Environmental hazards

Marine pollutant No

Special precautions for user Not applicable.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

UN "Model Regulation" --

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15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Sara

Section 355 (extremely hazardous substances) None of the ingredients are listed

Section 313 (Specific toxic chemical listings): None of the ingredients are listed

TSCA (Toxic Substances Control Act): 91-20-3 Naphthalene

Proposition 65

Chemicals known to cause cancer: None of the ingredients are listed

Chemicals known to cause reproductive toxicity for females: None of the ingredients are listed

Chemicals known to cause reproductive toxicity for males: None of the ingredients are listed

Chemicals known to cause developmental toxicity: None of the ingredients are listed

Carcinogenic categories

EPA (Environmental Protection Agency) 91-20-3 Naphthalene C, CBD

TLV (Threshold Limit Value established by ACGIH) 91-20-3 Naphthalene

NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients are listed.

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS07

Signal word

Warning

Hazard-determining components of labeling

91-20-3 Naphthalene

Hazard statements

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15. Regulatory Information (continued)

Precautionary statements	Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area. Wear protective gloves. Avoid release to the environment. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see on this label). IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center/doctor if you feel unwell. Wash contaminated clothing before reuse. IF exposed or concerned: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. If on skin: Wash with plenty of water. Dispose of contents/container in accordance with local/regional/national/international regulations.
National regulations	The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.
State Right to Know	Napthalene 91-20-3 ⚠ Acute Tox. 4, Skin Irrit. 2, H315, Eye Irrit. 2B, H320, ≤ 2.5% Skin Sens. 1, H317
Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.

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16. Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

Date of preparation / last revision 02/04/2015 / -

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)

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Gas 1: Flammable gases, Hazard Category 1

Press. Gas: Gases under pressure: Compressed gas

: Flammable liquids, Hazard Category 4

Acute Tox. 4: Acute toxicity, Hazard Category 4

Acute Tox. 2: Acute toxicity, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B

40.0.10

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Carc. 2: Carcinogenicity, Hazard Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1

: Hazardous to the aquatic environment - AcuteHazard, Category 3

Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

Data compared to the previous version altered

SDS created by MSDS Authoring Services
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