	SAFETY DATA SHEET	Page : 1 / 14
		Revision nr : 1
		Issue date : 21/09/2015
	Hammer Capsule HC 3/8", HC 1/2", HC 5/8", HC 3/4", HC 7/8", HC 1"	Supersedes :

SECTION: 1. Product and company identification

1.1. Product identifier

Trade name/designation : HC 3/8", HC 1/2", HC 5/8", HC 3/4", HC 7/8", HC 1"

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

Specific use(s) : Building and construction work

1.3. Details of the supplier of the safety data sheet

Company : Powers Fasteners, Inc.
2 Powers Lane, Brewster, NY 10509
Telephone: 800-524-3244
Fax: 877-871-1965
Email: info@powers.com

1.4. Emergency telephone number

Emergency telephone : (CHEMTREC) Within USA: (800) 424-9300;
Outside USA: 01 (703) 527-3887

SECTION: 2. Hazards identification

2.1. Classification of the substance or mixture

OSHA Regulatory Status : This material is classified as hazardous under OSHA regulations.
GHS-US classification Flam. Liq. 3
GHS-US classification Skin Irrit. 2
GHS-US classification Eye Irrit. 2A
GHS-US classification Skin Sens. 1
GHS-US classification STOT SE 3
GHS-US classification STOT RE 1

Full text of H-statements: see section 16

2.2. Label elements

Hazard pictograms (GHS-US) :



GHS02 GHS07 GHS08


Signal word (GHS-US) :

Hazard statements (GHS-US) :

: Danger
: Flammable liquid and vapor
Causes skin irritation
May cause an allergic skin reaction
Causes serious eye irritation
May cause respiratory irritation
Causes damage to organs through prolonged or repeated exposure
Precautionary statements (GHS-US) : Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

2.3. Other hazards

Other hazards which do not result in classification : Not applicable

	SAFETY DATA SHEET	Page : 2 / 14
		Revision nr : 1
		Issue date : 21/09/2015
	Hammer Capsule HC 3/8", HC 1/2", HC 5/8", HC 3/4", HC 7/8", HC 1"	Supersedes :

SECTION: 3. Composition/Information on ingredients

Substance name	CAS No	%
Styrene	100-42-5	10 - 25
Dibenzoyl peroxide	94-36-0	1 - 2,5

SECTION: 4. First aid measures

4.1. Description of first aid measures

Inhalation	: Provide fresh air. Put victim at rest, cover with a blanket and keep warm. In case of doubt or persistent symptoms, consult always a physician
Skin contact	: Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water . Call a physician if irritation develops or persists.
Eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In case of doubt or persistent symptoms, consult always a physician
In case of ingestion	: Get medical advice/attention
First-aid measures general	: First aider: Pay attention to self-protection! See also section 8 Never give anything by mouth to an unconscious person or a person with cramps. Show this safety data sheet to the doctor in attendance. Treat symptomatically.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	: May cause respiratory irritation.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: No adverse effects are expected.
Other adverse effects	: Causes damage to organs through prolonged or repeated exposure.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION: 5. Firefighting measures

5.1. Extinguishing media


Suitable extinguishing media	: Water spray, Alcohol resistant foam, Carbon dioxide, Dry extinguishing powder
Extinguishing media to avoid	: Strong water jet

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Flammable liquid and vapor.
Specific hazards	: rdous decomposition products : COx. Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation

5.3. Advice for firefighters

Advice for firefighters	: isted on the Korean ECL (Existing Chemicals List)e water spray or fog for Use water spray or fog for cooling exposed containers Keep away from heat, hot surfaces, sparks, open flames and other ignition
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	SAFETY DATA SHEET	Page : 3 / 14
		Revision nr : 1
	Hammer Capsule HC 3/8", HC 1/2", HC 5/8", HC 3/4", HC 7/8", HC 1"	Issue date : 21/09/2015
		Supersedes :

sources. No smoking.
No smoking.
Do not allow run-off from fire-fighting to enter drains or water courses.
Dispose of waste in accordance with environmental legislation

SECTION: 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel :
- Evacuate personnel to a safe area
 - Use personal protective equipment as required.
 - Reference to other sections: 8 .
 - Provide adequate ventilation
 - Avoid contact with skin, eyes and clothing
 - Do not breathe vapors/dust.
 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 - Ensure equipment is adequately grounded
 - Take precautionary measures against static discharges
 - Do not allow to enter into surface water or drains
- For emergency responders :
- Ensure procedures and training for emergency decontamination and disposal are in place
 - Concerning personal protective equipment to use, see item 8 .

6.2. Methods and material for containment and cleaning up

- Spill or leak statements by chemical :
- Use appropriate personal protection equipment (PPE).
 - Exclude sources of ignition and ventilate the area
 - Prevent runoff from entering drains, sewers or waterways.
 - Collect in closed and suitable containers for disposal.


SECTION: 7. Handling and storage

7.1. Precautions for safe handling

- Handling :
- Use only in well ventilated areas
 - Use personal protective equipment as required.
 - Concerning personal protective equipment to use, see item 8 .
 - Avoid contact with skin, eyes and clothing
 - Do not breathe vapor/aerosol
 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 - Handle and open container with care
 - After use replace the closing cap immediately
 - Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time).
 - Do not allow to enter into surface water or drains
 - Take any precaution to avoid mixing with incompatible materials.
 - See also section 10 .
- Advices on general occupational hygiene :
- Keep good industrial hygiene
 - Wash hands and face before breaks and immediately after handling of the product.
 - When using do not eat, drink or smoke.
 - Take off contaminated clothing.
 - Keep away from food, drink and animal feeding stuffs

7.2. Conditions for safe storage, including any incompatibilities

- Storage :
- Keep container tightly closed in a cool, well-ventilated place.
 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 - Keep away from food, drink and animal feeding stuffs

	SAFETY DATA SHEET	Page : 4 / 14
		Revision nr : 1
		Issue date : 21/09/2015
	Hammer Capsule HC 3/8", HC 1/2", HC 5/8", HC 3/4", HC 7/8", HC 1"	Supersedes :

Keep storage temperature below 77 °F
 Keep away from heat
 Protect from sunlight.
 Do not store near or with any of the incompatible materials listed in section 10.

SECTION: 8. Exposure controls/personal protection

8.1. Exposure guidelines


Styrene (100-42-5)		
ACGIH	ACGIH TWA (ppm)	20 ppm
ACGIH	ACGIH STEL (ppm)	40 ppm
IDLH	US IDLH (ppm)	700 ppm
NIOSH	NIOSH REL (TWA) (mg/m ³)	215 mg/m ³
NIOSH	NIOSH REL (TWA) (ppm)	50 ppm
NIOSH	NIOSH REL (STEL) (mg/m ³)	425 mg/m ³
NIOSH	NIOSH REL (STEL) (ppm)	100 ppm
OSHA	OSHA PEL (TWA) (ppm)	100 ppm
OSHA	OSHA PEL (Ceiling) (ppm)	200 ppm
Québec	VECD (mg/m ³)	426 mg/m ³
Québec	VECD (ppm)	100 ppm
Québec	VEMP (mg/m ³)	213 mg/m ³
Québec	VEMP (ppm)	50 ppm
Dibenzoyl peroxide (94-36-0)		
ACGIH	ACGIH TWA (mg/m ³)	5 mg/m ³
IDLH	US IDLH (mg/m ³)	1500 mg/m ³
NIOSH	NIOSH REL (TWA) (mg/m ³)	5 mg/m ³
OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m ³
Québec	VEMP (mg/m ³)	5 mg/m ³

8.2. Engineering controls

Engineering control measures	: Provide adequate ventilation Use only in area provided with appropriate exhaust ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure Take precautionary measures against static discharge Organizational measures to prevent /limit releases, dispersion and exposure See also section 7 .
Environmental exposure controls	: Do not allow contact with soil, surface or ground water. Comply with applicable environmental protection legislation.

8.3. Personal protective equipment (PPE)

Personal protection equipment (PPE)	: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment Full face mask Half face Air-Purifying Filter type: A
Hand protection	: Wear chemically resistant gloves. Impervious gloves Butyl caoutchouc (butyl rubber) . Breakthrough time (maximum wearing time) : > 120 min. The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used,

	SAFETY DATA SHEET	Page : 5 / 14
		Revision nr : 1
	Hammer Capsule HC 3/8", HC 1/2", HC 5/8", HC 3/4", HC 7/8", HC 1"	Issue date : 21/09/2015
		Supersedes :

physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.

Eye protection : Safety glasses

Body protection : Wear suitable protective clothing.

Thermal hazard protection : Not required for normal conditions of use

SECTION: 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance : capsules

Color : Colorless

Odor : characteristic

Odor threshold: : No data available

pH : No data available

Melting point/freezing point : No data available

Initial boiling point and boiling range : No data available

Flash point : < 131 °F Resin

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Upper/lower flammability or explosive limits : No data available

Vapor pressure : No data available

Vapor density : No data available

Relative density : No data available

Water solubility : insoluble

Solubility in different media : No data available

Partition coefficient n-octanol/water : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity : (@ 73,4 °F) 400 - 500 mPa.s Resin

Explosive properties : Not applicable, The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.

Oxidizing properties : Not applicable
The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with explosive properties.

SECTION: 10. Stability and reactivity

10.1. Reactivity


Reactivity : Flammable liquid and vapor.
Reference to other sections: 10.5

10.2. Chemical stability

Stability : The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions : heat, UV:
Polymerization can occur

	SAFETY DATA SHEET	Page : 6 / 14
		Revision nr : 1
		Issue date : 21/09/2015
	Hammer Capsule HC 3/8", HC 1/2", HC 5/8", HC 3/4", HC 7/8", HC 1"	Supersedes :

10.4. Conditions to avoid

Conditions to avoid : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
See also section 7 :
Handling and storage .

10.5. Incompatible materials

Incompatible materials : Strong oxidizing agents . Strong bases . Strong acids . See also section 7 :
Handling and storage .

10.6. Hazardous decomposition products

Hazardous decomposition products : Burning produces noxious and toxic fumes. (COx).

SECTION: 11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

Styrene (100-42-5)	
LD50 oral rat	1000 mg/kg
LC50 inhalation rat (mg/l)	11,8 mg/l
Dibenzoyl peroxide (94-36-0)	
LD50 oral rat	7710 mg/kg

Skin corrosion/irritation : Causes skin irritation.
Styrene :
Causes skin irritation.
pH: No data available

Serious eye damage/irritation : Causes serious eye irritation.
Styrene /
dibenzoyl peroxide, benzoyl peroxide :
Causes serious eye irritation.
pH: No data available

Respiratory or skin sensitization : May cause an allergic skin reaction.
dibenzoyl peroxide, benzoyl peroxide :
May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)


Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Styrene (100-42-5)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	3 - Reasonably anticipated to be Human Carcinogen
	In OSHA Hazard Communication Carcinogen list

Dibenzoyl peroxide (94-36-0)	
IARC group	3 - Not classifiable

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

Specific target organ toxicity (single exposure) : May cause respiratory irritation.
Styrene :
May cause respiratory irritation.

	SAFETY DATA SHEET	Page : 7 / 14
		Revision nr : 1
		Issue date : 21/09/2015
	Hammer Capsule HC 3/8", HC 1/2", HC 5/8", HC 3/4", HC 7/8", HC 1"	Supersedes :

Specific target organ toxicity (repeated exposure)	: Causes damage to organs through prolonged or repeated exposure. Styrene : Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
Other adverse effects	: Causes damage to organs through prolonged or repeated exposure.
Other information	: Symptoms related to the physical, chemical and toxicological characteristics. Reference to other sections: 4.2.
Other information	: Symptoms related to the physical, chemical and toxicological characteristics Reference to other sections: 4.2

SECTION 12: Ecological information

12.1.Toxicity

Toxicity : Very toxic to aquatic life.

Styrene (100-42-5)	
LC50 fish 1	3,24 - 4,99 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	3,3 - 7,4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 other aquatic organisms 1	1,4 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata)
LC50 fish 2	19,03 - 33,53 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
LC50 other aquatic organisms 2	500 mg/l Bacteria
EC50 other aquatic organisms 2	0,72 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata)
NOEC (acute)	44 mg/kg (Exposure time: 14 Days - Species: Eisenia foetida [soil dry weight])
NOEC (additional information)	NOEC, Daphnia : 1,01 mg/l (21d)

12.2.Persistence and degradability

Persistence and degradability : No data available

12.3.Bioaccumulative potential

Bioaccumulative potential : No data available

Partition coefficient n-octanol/water : No data available

12.4.Mobility in soil

Mobility : No data available


12.5.Other adverse effects

Other information : No information available

SECTION 13: Disposal considerations

13.1.Waste treatment methods

Product waste:	: Handle with care. Safe handling: see section 7 . Do not allow to enter into surface water or drains Refer to manufacturer/supplier for information on recovery/recycling. . Collect and dispose of waste product at an authorized disposal facility. Dispose of contaminated materials in accordance with current regulations
Contaminated packaging	: In accordance with local and national regulations.
Further ecological information	: Should not be released into the environment.

	SAFETY DATA SHEET	Page : 8 / 14
		Revision nr : 1
	Hammer Capsule HC 3/8", HC 1/2", HC 5/8", HC 3/4", HC 7/8", HC 1"	Issue date : 21/09/2015
		Supersedes :

SECTION 14: Transport information

14.1. Basic shipping description

DOT

UN-No.(DOT) : 1866
 Proper Shipping Name (DOT) : Resin solution
 Transport hazard class(es) (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
 Packing group (DOT) : II - Medium Danger
 Hazard labels (DOT) : 3 - Flammable liquid



Special provisions : When transported as a limited quantity or a consumer commodity, the maximum net capacity specified in 173.150(b)(2) of this subchapter for inner packaging may be increased to 5 L (1.3 gallons). Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. 2.65 178.274(d)(2) Normal..... 178.275(d)(3) The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. A portable tank having a minimum test pressure of 1.5 bar (150 kPa) may be used when the flash point of the hazardous material transported is greater than 0 C (32 F).

14.2 Additional information

IMDG

IMDG : If shipped by vessel in quantities LESS than 30L, IMDG 2.3.2.5 exception applies: Not regulated as a hazardous material.
 State on shipping documents: "Transport in accordance with 2.3.2.5 of the IMDG code."

UN-No. (ADR) : 1866
 Proper shipping name IATA/IMDG : IATA : RESIN SOLUTION
 Class or Division : -
 Packing group : III

ICAO/IATA


UN-No. (ADR) : 1866
 Proper shipping name IATA/IMDG : IATA : RESIN SOLUTION
 Class or Division : -
 Subsidiary Class : IATA : 3 - Flammable liquids
 Packing group : III

SECTION: 15. Regulatory information

15.1. US Federal regulations

Styrene (100-42-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
 Subject to reporting requirements of United States SARA Section 313

	SAFETY DATA SHEET	Page : 9 / 14
		Revision nr : 1
	Issue date : 21/09/2015	
	Hammer Capsule HC 3/8", HC 1/2", HC 5/8", HC 3/4", HC 7/8", HC 1"	Supersedes :

Styrene (100-42-5)

SARA Section 313 - Emission Reporting 0,1 %

Dibenzoyl peroxide (94-36-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Subject to reporting requirements of United States SARA Section 313

SARA Section 313 - Emission Reporting 1,0 %

15.2. International regulations

15.2.1. CANADA

Styrene (100-42-5)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification Class B Division 2 - Flammable Liquid
Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

Dibenzoyl peroxide (94-36-0)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification Class C - Oxidizing Material
Class D Division 2 Subdivision B - Toxic material causing other toxic effects
Class F - Dangerously Reactive Material

15.2.2. National regulations

Styrene (100-42-5)

- Listed on the AICS (Australian Inventory of Chemical Substances)
- Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
- Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
- Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
- Listed on the Korean ECL (Existing Chemicals List)
- Listed on NZIoC (New Zealand Inventory of Chemicals)
- Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
- Japanese Pollutant Release and Transfer Register Law (PRTR Law)
- Listed on the Canadian IDL (Ingredient Disclosure List)
- Listed on INSQ (Mexican national Inventory of Chemical Substances)
- Listed on Turkish inventory of chemical


Dibenzoyl peroxide (94-36-0)

- Listed on the AICS (Australian Inventory of Chemical Substances)
- Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
- Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
- Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
- Listed on the Korean ECL (Existing Chemicals List)
- Listed on NZIoC (New Zealand Inventory of Chemicals)
- Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
- Listed on the Canadian IDL (Ingredient Disclosure List)
- Listed on INSQ (Mexican national Inventory of Chemical Substances)
- Listed on Turkish inventory of chemical

15.3. US State regulations

Glass

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
No	No	No	No	

	SAFETY DATA SHEET		Page : 10 / 14
			Revision nr : 1
			Issue date : 21/09/2015
	Hammer Capsule HC 3/8", HC 1/2", HC 5/8", HC 3/4", HC 7/8", HC 1"		Supersedes :

Quartz (respirable dust <1%) (14808-60-7)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
Yes	No	No	No	

Styrene (100-42-5)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
No	No	No	No	

1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
No	No	No	No	

dicyclohexyl phthalate (84-61-7)


U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
No	No	No	No	

Dibenzoyl peroxide (94-36-0)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
No	No	No	No	


Styrene (100-42-5)

- U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Acute
- U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Chronic
- U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)
- U.S. - Colorado - Groundwater Quality Standards
- U.S. - Colorado - Primary Drinking Water Regulations - Maximum Contaminant Level Goals (MCLGs)
- U.S. - Colorado - Primary Drinking Water Regulations - Maximum Contaminant Levels (MCLs)
- U.S. - Connecticut - Drinking Water Quality Standards - Maximum Contaminant Levels
- U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)
- U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)
- U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities
- U.S. - Florida - Drinking Water Standards - Volatile Organic Contaminants - Maximum Contaminant Levels (MCLs)
- U.S. - Georgia - Drinking Water - Maximum Contaminant Levels (MCLs)
- U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations
- U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)
- U.S. - Idaho - Occupational Exposure Limits - Acceptable Maximum Peak Above the Ceiling Concentration for an 8-Hour Shift
- U.S. - Idaho - Occupational Exposure Limits - Ceilings
- U.S. - Idaho - Occupational Exposure Limits - TWAs
- U.S. - Illinois - Toxic Air Contaminant Carcinogens
- U.S. - Illinois - Toxic Air Contaminants
- U.S. - Louisiana - Reportable Quantity List for Pollutants
- U.S. - Maine - Air Pollutants - Hazardous Air Pollutants
- U.S. - Maine - Chemicals of High Concern

	SAFETY DATA SHEET	Page : 11 / 14
		Revision nr : 1
		Issue date : 21/09/2015
	Hammer Capsule HC 3/8", HC 1/2", HC 5/8", HC 3/4", HC 7/8", HC 1"	Supersedes :

Styrene (100-42-5)

- U.S. - Massachusetts - Allowable Ambient Limits (AALs)
- U.S. - Massachusetts - Allowable Threshold Concentrations (ATCs)
- U.S. - Massachusetts - Drinking Water - Maximum Contaminant Levels (MCLs)
- U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1
- U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2
- U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity
- U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1
- U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2
- U.S. - Massachusetts - Right To Know List
- U.S. - Massachusetts - Threshold Effects Exposure Limits (TELs)
- U.S. - Massachusetts - Toxics Use Reduction Act
- U.S. - Michigan - Occupational Exposure Limits - STELs
- U.S. - Michigan - Occupational Exposure Limits - TWAs
- U.S. - Michigan - Polluting Materials List
- U.S. - Minnesota - Chemicals of High Concern
- U.S. - Minnesota - Hazardous Substance List
- U.S. - Minnesota - Permissible Exposure Limits - STELs
- U.S. - Minnesota - Permissible Exposure Limits - TWAs
- U.S. - Missouri - Drinking Water - Maximum Contaminant Levels (MCLs)
- U.S. - Nebraska - Drinking Water - Maximum Contaminant Levels (MCLs)
- U.S. - New Hampshire - Drinking Water - Maximum Contaminant Levels (MCLs)
- U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour
- U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual
- U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances
- U.S. - New Jersey - Environmental Hazardous Substances List
- U.S. - New Jersey - Primary Drinking Water Standards - Maximum Contaminant Levels - MCLs
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - New Jersey - Special Health Hazards Substances List
- U.S. - New Jersey - Water Quality - Ground Water Quality Criteria
- U.S. - New Jersey - Water Quality - Practical Quantitation Levels (PQLs)
- U.S. - New York - Occupational Exposure Limits - Ceilings
- U.S. - New York - Occupational Exposure Limits - TWAs
- U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances
- U.S. - North Carolina - Control of Toxic Air Pollutants
- U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 1-Hour
- U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour
- U.S. - North Dakota - Water Quality Standards - Human Health Value for Classes I, IA, II
- U.S. - Oregon - Permissible Exposure Limits - Ceilings
- U.S. - Oregon - Permissible Exposure Limits - STELs
- U.S. - Oregon - Permissible Exposure Limits - TWAs
- U.S. - California - Safer Consumer Products - Initial List of Candidate Chemicals and Chemical Groups
- U.S. - Pennsylvania - Drinking Water - Maximum Contaminant Levels (MCLs)
- U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
- U.S. - Pennsylvania - RTK (Right to Know) List
- U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - 1-Hour
- U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - 24-Hour
- U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - Annual
- U.S. - South Carolina - Maximum Contaminant Levels (MCLs)
- U.S. - South Carolina - Toxic Air Pollutants - Maximum Allowable Concentrations
- U.S. - South Carolina - Toxic Air Pollutants - Pollutant Categories
- U.S. - Tennessee - Occupational Exposure Limits - STELs
- U.S. - Tennessee - Occupational Exposure Limits - TWAs
- U.S. - Texas - Drinking Water Standards - Maximum Contaminant Levels (MCLs)
- U.S. - Texas - Effects Screening Levels - Long Term
- U.S. - Texas - Effects Screening Levels - Short Term
- U.S. - Utah - Drinking Water - Maximum Contaminant Levels (MCLs)
- U.S. - Vermont - Permissible Exposure Limits - STELs
- U.S. - Vermont - Permissible Exposure Limits - TWAs
- U.S. - Washington - Permissible Exposure Limits - STELs

	SAFETY DATA SHEET	Page : 12 / 14
		Revision nr : 1
		Issue date : 21/09/2015
	Hammer Capsule HC 3/8", HC 1/2", HC 5/8", HC 3/4", HC 7/8", HC 1"	Supersedes :

Styrene (100-42-5)


- U.S. - Washington - Permissible Exposure Limits - TWAs
- U.S. - West Virginia - Water Quality - Groundwater Standards - Ceiling Concentrations
- U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet
- U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet
- U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater
- U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet

Dibenzoyl peroxide (94-36-0)

- U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)
- U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)
- U.S. - Delaware - Accidental Release Prevention Regulations - Sufficient Quantities
- U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities
- U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations
- U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)
- U.S. - Idaho - Occupational Exposure Limits - TWAs
- U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1
- U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2
- U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity
- U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1
- U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2
- U.S. - Massachusetts - Right To Know List
- U.S. - Massachusetts - Toxics Use Reduction Act
- U.S. - Michigan - Occupational Exposure Limits - TWAs
- U.S. - Michigan - Process Safety Management Highly Hazardous Chemicals
- U.S. - Minnesota - Hazardous Substance List
- U.S. - Minnesota - Permissible Exposure Limits - TWAs
- U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour
- U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual
- U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances
- U.S. - New Jersey - Environmental Hazardous Substances List
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - New Jersey - Special Health Hazards Substances List
- U.S. - New Jersey - TCPA - Extraordinarily Hazardous Substances (EHS)
- U.S. - New York - Occupational Exposure Limits - TWAs
- U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour
- U.S. - Oregon - Permissible Exposure Limits - TWAs
- U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
- U.S. - Pennsylvania - RTK (Right to Know) List
- U.S. - Tennessee - Occupational Exposure Limits - TWAs
- U.S. - Texas - Effects Screening Levels - Long Term
- U.S. - Texas - Effects Screening Levels - Short Term
- U.S. - Vermont - Permissible Exposure Limits - TWAs
- U.S. - Washington - Permissible Exposure Limits - STELs
- U.S. - Washington - Permissible Exposure Limits - TWAs
- U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet
- U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet
- U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater
- U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet
- U.S. - Wyoming - Process Safety Management - Highly Hazardous Chemicals

SECTION: 16. Other information

Issue date : 21/09/2015
Supersedes :
Key literature references and sources for data : Supplier msds, LOLI.

	SAFETY DATA SHEET	Page : 13 / 14
		Revision nr : 1
		Issue date : 21/09/2015
	Hammer Capsule HC 3/8", HC 1/2", HC 5/8", HC 3/4", HC 7/8", HC 1"	Supersedes :

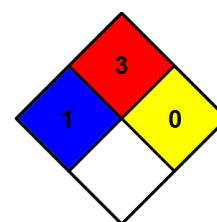
Abbreviations and acronyms : OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)
TWA = time weighted average
LC50 = Median lethal concentration
LD50 = Median lethal dose
LL50 = Median lethal level
EC50 = Median Effective Concentration
EL50 = Median effective level
ErC50 = EC50 in terms of reduction of growth rate
ErL50 = EL50 in terms of reduction of growth rate
NOEL = no-observed-effect level
NOEC = No observed effect concentration
NOELR = No observed effect loading rate
NOAEC = No observed adverse effect concentration
NOAEL = No observed adverse effect level
NA = Not applicable
VOC = Volatile organic compounds
Quantitative structure-activity relationship (QSAR)

Full text of H-statements:

Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 3	Flammable liquids, Category 3
Org. Perox. B	Organic Peroxides, Type B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, hazard category 1
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour
H241	Heating may cause a fire or explosion
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H372	Causes damage to organs through prolonged or repeated exposure

NFPA-code

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA fire hazard : 3 - Liquids and solids that can be ignited under almost all ambient conditions.
NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.




HMIS III Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability : 3 Serious Hazard
Physical : 0 Minimal Hazard

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

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	SAFETY DATA SHEET	Page : 14 / 14
		Revision nr : 1
	Hammer Capsule HC 3/8", HC 1/2", HC 5/8", HC 3/4", HC 7/8", HC 1"	Issue date : 21/09/2015
		Supersedes :
