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		Safety Data Sheet	
sue date: 14.02.2017		v 3	Last Revision Date: 02.08.20
1 Identification			
· Product identifier			
Trade name: GDi I	nduction Sv	stem Cleaner	
· Part number: 40	-		
		the mixture engine sy	stem cleaner
-	lier: , CPS Products Y 1M5 ponsible: custo		.c.com
• Emergency telepho CHEMTREC Interna		527-3887 (outside the	US), 1-800-424-9300 (in the US) 24 hr
2 Hazard(s) identific	ation		
· Classification of the s			
•	6 Flammable liq		
	5 Causes skin i		
•	9 Causes serior	•	
Skin Sens. 1 H317	7 May cause an	allergic skin reaction.	
Carc. 2 H35 ⁻	Suspected of	causing cancer.	
Aquatic Acute 2 H40 ⁻	I Toxic to aquat	tic life.	
Aquatic Chronic 2 H41	I Toxic to aqua	tic life with long lasting	effects.
Label elements GHS label elements The product is classi Hazard pictogra GHS02 GHS07	fied and labeled	l according to the Glob	pally Harmonized System (GHS).
· Signal word Wa	rning		
 Hazard-determin xylene (R)-p-mentha-1,8 2-butoxyethanol Hazard statemen Flammable liquid Causes skin irrita Causes serious e May cause an alle Suspected of cau Toxic to aquatic li 	-diene nts and vapor. tion. ye irritation. ergic skin reactio sing cancer.		
TOXIC TO AQUALIC I	16.		(Contd. on page

(Contd. on page 2) NA

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Trade name: GDi Induction System Cleaner

(Contd. of page 1)

Toxic to aquatic life with long lasting effects.

Precautionary statements

Obtain special instructions before use.

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

Wash thoroughly after handling.

Avoid breathing dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection.

Keep container tightly closed.

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

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Take off contaminated clothing and wash it before reuse.

Wash contaminated clothing before reuse.

Store locked up.

Store in a well-ventilated place. Keep cool.

Dispose of contents in accordance with local regulations.

Other hazards

Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB**: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

• **Description:** Mixture: consisting of the following hazardous components.

· Chemical components:		
1330-20-7	xylene	10-25%
111-76-2	2-butoxyethanol	10-25%
	(R)-p-mentha-1,8-diene	10-25%
108-11-2	4-methylpentan-2-ol	2,5-10%
64742-94-5	Solvent naphtha (petroleum), heavy arom.	≤ 2,5%
64742-47-8	Distillates (petroleum), hydrotreated light	≤ 2,5%
91-20-3	naphthalene	≤ 2,5%
· Addition	al information: For the wording of the listed hazard phrases refer to section 16.	

4 First-aid measures

· Description of first aid measures

• After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

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Trade name: GDi Induction System Cleaner (Contd. of page 2) IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower. If skin irritation continues, consult a doctor. · After eve contact: Rinse cautiously with water. Remove contact lenses, if present and easy to do. Get medical attention if eye irritation develops or persists. • After swallowing: Do not induce vomiting; immediately call for medical help. · Information for doctor: Treat Symptomatically · Most important symptoms and effects, both acute and delayed May cause eye irritation. Symptons may include discomfort or pain, excessive blinking and tear production, with possible redness and swelling. Headache Dizziness Disorientation Nausea Causes serious eve irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling. Harmful if swallowed. May be fatal if swallowed and enters airways. Swallowing a small quantity of this material will result in serious health hazard. May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. Repeated exposure to this material can result in absorption through skin causing significant health hazard. See section 11. Indication of any immediate medical attention and special treatment needed Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

5 Fire-fighting measures

- Extinguishing media
 - Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
 - For safety reasons unsuitable extinguishing agents: Water

• Special hazards arising from the substance or mixture See section 10 for additional information.

- Advice for firefighters
 - · Protective equipment:

Wear full protective firegear including self-containing breathing apparatus operated in the positive pressure mode with full facepiece, coat, pants, gloves and boots. Do not use a water jet.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- · Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system. Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.

Take precautions to avoid release to the environment. Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

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Trade name: GDi Induction System Cleaner (Contd. of page 3) · Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents · 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 Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. · Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect from heat. Protect against electrostatic charges. · Conditions for safe storage, including any incompatibilities · Storage: · Requirements to be met by storerooms and receptacles: See section 10 for incompatible materials. · Information about storage in one common storage facility: Not required. · Further information about storage conditions: Keep receptacle tightly sealed. Protect from heat and direct sunlight. · Specific end use(s) No further relevant information available. 8 Exposure controls/personal protection

Control parameters

· Components with limit values that require monitoring at the workplace:		
1330-20-7 xy	lene (10-25%)	
PEL (USA)	TWA: 435 mg/m ³ , 100 ppm	
REL (USA)	STEL: 655 mg/m³, 150 ppm TWA: 435 mg/m³, 100 ppm	
TLV (USA)	STEL: 651 mg/m³, 150 ppm TWA: 434 mg/m³, 100 ppm BEI	
EL (Canada)	STEL: 150 ppm TWA: 100 ppm	
EV (Canada)	STEL: 650 mg/m³, 150 ppm TWA: 435 mg/m³, 100 ppm	
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111-76-2 2-b	utoxyethanol (10-25%)	(Contd. of page
PEL (USA)	TWA: 240 mg/m ³ , 50 ppm	
	Skin	
REL (USA)	TWA: 24 mg/m³, 5 ppm	
()	Skin	
TLV (USA)	TWA: 97 mg/m ³ , 20 ppm	
	BEI	
EL (Canada)	TWA: 20 ppm	
EV (Canada)	TWA: 20 ppm	
	Skin	
	ethylpentan-2-ol (2,5-10%)	
PEL (USA)	TWA: 100 mg/m³, 25 ppm Skin	
REL (USA)	STEL: 165 mg/m³, 40 ppm	
	TWA: 100 mg/m ³ , 25 ppm	
TINGO	Skin	
TLV (USA)	STEL: 167 mg/m³, 40 ppm TWA: 104 mg/m³, 25 ppm	
	Skin	
EL (Canada)	STEL: 40 ppm	
· · · · ·	TWA: 25 ppm	
	Skin	
EV (Canada)	STEL: 167 mg/m ³ , 40 ppm	
	TWA: 104 mg/m³, 25 ppm Skin	
64742-47-8 D	istillates (petroleum), hydrotreated light (≤ 2,5%)	
	TWA: 200 mg/m ³	
(Skin	
91-20-3 naph	thalene (≤ 2,5%)	
PEL (USA)	TWA: 50 mg/m ³ , 10 ppm	
REL (USA)	STEL: 75 mg/m³, 15 ppm	
	TWA: 50 mg/m³, 10 ppm	
TLV (USA)	TWA: 52 mg/m ³ , 10 ppm	
	Skin; BEI	
EL (Canada)	STEL: 15 ppm TWA: 10 ppm	
	Skin; IARC 2B	
EV (Canada)		
_ (• • • • • • • • • • • • • • • • •	TWA: 52 mg/m ³ , 10 ppm	
•	edients with biological limit values:	
	lene (10-25%)	
BEI (USA) 1,	5 g/g creatinine	
	edium: urine me: end of shift	
	arameter: Methylhippuric acids	
[· · ·	/ -	(Contd. on pag

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Trade name: GDi Induction System Cleaner (Contd. of page 5) 111-76-2 2-butoxyethanol (10-25%) BEI (USA) 200 mg/g creatinine Medium: urine Time: end of shift Parameter: Butoxyacetic acid with hydrolysis · Additional information: The lists that were valid during the creation were used as basis. · Exposure controls · Personal protective equipment: General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Avoid contact with the eyes and skin. · Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air. · Protection of hands: Chemical resistant protective gloves · Eye protection: Safety glasses. If potential for splash or mist exists, wear chemical goggles or faceshield. **9 Physical and chemical properties** Information on basic physical and chemical properties · General Information · Appearance: · Form: Liquid · Color: Amber colored · Odor: Citrus · Odor threshold: Not determined. · pH-value: Not determined. · Change in condition · Melting point/Melting range: Undetermined. · Boiling point/Boiling range: Undetermined. 28°C · Flash point: · Flammability (solid, gaseous): Not applicable.

Not determined.

Ignition temperature:
 Decomposition temperature:

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Trade name: GDi Induction System Cleaner

	(Contd. of page 6
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
· Lower:	Not determined.
· Upper:	Not determined.
· Vapor pressure:	Not determined.
· Density:	Not determined.
 Relative density at 20 °C 	0,84-0,88
· Vapor density	Not determined.
Evaporation rate	Not determined.
· Solubility in / Miscibility with	
· Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/	water): Not determined.
· Viscosity:	
· Dynamic:	Not determined.
· Kinematic:	Not determined.
 Other information 	No further relevant information available.

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
 - Thermal decomposition / conditions to be avoided:
 - Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid Heat, open flames, sparks.
- Incompatible materials: Strong Oxidizers acids
 Hazardous decomposition products: Nitrogen oxides Ammonia May include, and are not limited to: oxides of carbon. aliphatic alcohols polyalkylglycols Propylamine

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Trade name: GDi Induction System Cleaner

(Contd. of page 7)

	on on toxicologic toxicity:	al effects	
	•	are relevant for classification:	
	te Toxicity Estim		
Oral	LD50	4098 mg/kg	
Dermal	LD50	4290 mg/kg	
	LC50/4 h (vapor)	0 0	
1330-20-7	xvlene		
Oral	LD50	4300 mg/kg (rat)	
Dermal	LD50	2000 mg/kg (rabbit)	
Inhalative	LC50/4 h (vapor)	6700 mg/L (rat)	
	2-butoxyethanol		
Oral	LD50	1414 mg/kg (gpg)	
Dermal	LD50	2000 mg/kg (gpg)	
Inhalative	LC50/4 h (vapor)	11,5 mg/L (gpg)	
5989-27-5	(R)-p-mentha-1,	3-diene	
Oral	LD50	4400 mg/kg (rat)	
Dermal	LD50	>5 g/Kg (rabbit)	
108-11-2 4	4-methylpentan-2	-ol	
Oral	LD50	2590 mg/kg (rat)	
Dermal	LD50	3560 mg/kg (rabbit)	
91-20-3 na	aphthalene		
Oral	LD50	490 mg/kg (rat)	
Dermal	LD50	5000 mg/kg (rat)	
∙ (• (• I • I • Sen May Sen • Additio	on the eye: Irritati nhalation: May ca ngestion: May be sitization: produce an allerg sitization possible onal toxicologica oduct shows the f ations:	nt to skin and mucous membranes. ng effect. ause respiratory tract irritation. fatal if swallowed and enter airways. gic reaction. through skin contact.	ation methods
	ARC (Internation	al Agency for Research on Cancer)	
1330-20-7	xylene		(
111-76-2	2-butoxyethanol		3
	(R)-p-mentha-1,		

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2B

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91-20-3 naphthalene

· NTP (National Toxicology Program)

91-20-3 naphthalene

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

Toxicity

· Aquatic toxicity:

5989-27-5 (R)-p-mentha-1,8-diene

LC50 (96 h) 0,619-0,796 mg/L (Pimephales promelas)

• Persistence and degradability No further relevant information available.

· Behavior in environmental systems:

· Bioaccumulative potential

108-11-2 4-methylpentan-2-ol

Bioaccumulation LogPow 1,43 (-) (potential low)

Mobility in soil No further relevant information available.

· Ecotoxical effects:

· Remark: Toxic for fish

· Additional ecological information:

· General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- · vPvB: Not applicable.

· Other adverse effects Avoid release to the environment.

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.

(Contd. on page 10)

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Trade name: GDi Induction System Cleaner

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· UN-Number · DOT, IMDG, IATA · TDG	UN1993 UN1993
 UN proper shipping name DOT 	Flammable liquids, n.o.s. (Xylenes, Dipentene, Metl isobutyl carbinol, 2-butoxyethanol)
·TDG	Flammable liquids, n.o.s. (Xylenes, Dipentene, Metlisobutyl carbinol)
· IMDG · IATA	FLAMMABLE LIQUID, N.O.S. (XYLENE DIPENTENE, METHYL ISOBUTYL CARBINOL, butoxyethanol), MARINE POLLUTANT FLAMMABLE LIQUID, N.O.S. (XYLENE
	DIPENTENE, METHYL ISOBUTYL CARBINOL, butoxyethanol)
· Transport hazard class(es)	
· DOT	
FIRAMAGE LOOD	
· Class · Label · TDG	3 Flammable liquids 3
· Class · Label	3 Flammable liquids 3
· IMDG, IATA	
· Class · Label	3 Flammable liquids 3
 Packing group DOT, IMDG, IATA TDG 	
· Environmental hazards:	Product contains environmentally hazardous substance (R)-p-mentha-1,8-diene
· Marine pollutant:	Yes (DOT)
 Special precautions for user Danger code (Kemler): EMS Number: Stowage Category 	Warning: Flammable liquids 30 F-E, <u>S-E</u> E
Slowaye Caleyoly	L

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Trade name: GDi Induction System Cleaner

 Transport in bulk according to Annex MARPOL73/78 and the IBC Code 	I ll of Not applicable.
· Transport/Additional information:	
 · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) 	0 Code: E3 Maximum net quantity per inner packaging: 30 m Maximum net quantity per outer packaging: 300 r
· Size/package type:	LTD QTY, Consumer Commodity, ORM-D (325 m bottle)
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUIDS, N.O.S. (XYLENE DIPENTENE, METHYL ISOBUTYL CARBINOL, BUTOXYETHANOL), 3, I

15 Regulatory information

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

· Sara

·S	ection 355 (extremely hazardous substances):	
None of the	e ingredients is listed.	
·S	ection 313 (Specific toxic chemical listings):	
1330-20-7	xylene	
	2-butoxyethanol	
	1,2,4-trimethylbenzene	
91-20-3	naphthalene	
· TSC	A (Toxic Substances Control Act):	
All ingredie	nts are listed.	
· Prop	position 65	
· C	hemicals known to cause cancer:	
91-20-3 na	aphthalene	
· C	hemicals known to cause reproductive toxicity for females:	
None of the	e ingredients is listed.	
· C	hemicals known to cause reproductive toxicity for males:	
None of the	e ingredients is listed.	
· C	hemicals known to cause developmental toxicity:	
None of the	e ingredients is listed.	
· Carc	inogenic categories	
· E	PA (Environmental Protection Agency)	
1330-20-7	xylene	1
		(Contd. on page 12)

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	(Con	td. of page 11)
	2-butoxyethanol	NL
	1,2,4-trimethylbenzene	11
91-20-3	naphthalene	C, CBD
• T	LV (Threshold Limit Value established by ACGIH)	
1330-20-7	xylene	A4
111-76-2	2-butoxyethanol	A3
91-20-3	naphthalene	A4
• N	IIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the	e ingredients is listed.	
· Can	adian substance listings:	
· C	anadian Domestic Substances List (DSL)	
All ingredie	ents are listed.	
· C	Canadian Ingredient Disclosure list (limit 0.1%)	
95-63-6 1,	2,4-trimethylbenzene	
· C	Canadian Ingredient Disclosure list (limit 1%)	
111-76-2	2-butoxyethanol	
5989-27-5	(R)-p-mentha-1,8-diene	
108-11-2	4-methylpentan-2-ol	
	••	

16 Other information

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

- · Contact: Engineering Department
 - · Issue Date 14/FEB/2017
 - Revision Changes:
 - v 1.0 original SDS release (13/OCT/2015)
 - v 2.0 revised (02/AUG/2016)
 - v 3.0 revised section 2&3 (14/FEB/2017)

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health Flam. Liq. 3: Flammable liquids - Category 3 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

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NA

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NΔ

Skin Sens. 1: Skin sensitisation – Category 1 Carc. 2: Carcinogenicity – Category 2 Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2