

# SAFETY DATA SHEET

## Sika® Primer-290 DC



Version  
2.0

Revision Date:  
11/30/2018

SDS Number:  
000000019845

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### SECTION 1. IDENTIFICATION

Product name : Sika® Primer-290 DC

#### Manufacturer or supplier's details

Company name : 601, avenue Delmar  
Canada  
Pointe-Claire, QC H9R 4A9  
Sika Canada Inc.  
www.sika.ca

Telephone : (514) 697-2610 / 1 (800) 933-7452

Telefax : (514) 694-2792

Health and Safety Services's  
e-mail address : ehs@ca.sika.com

Emergency telephone : CANUTEC (collect) (613) 996-6666 (24 hours)

#### Recommended use of the chemical and restrictions on use

For further information, refer to product data sheet.

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

- || Flammable liquids : Category 2
- Eye irritation : Category 2A
- || Skin sensitization : Sub-category 1A
- Carcinogenicity (Inhalation) : Category 2
- Specific target organ system-  
ic toxicity - single exposure : Category 3 (Central nervous system)
- Specific target organ system-  
ic toxicity - repeated expo-  
sure (Inhalation) : Category 2 (hearing organs)

#### GHS label elements

- || Hazard pictograms : 



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Signal Word	: Danger
Hazard Statements	: H225 Highly flammable liquid and vapor. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer if inhaled. H373 May cause damage to organs (hearing organs) through prolonged or repeated exposure if inhaled.
Precautionary Statements	: <b>Prevention:</b> P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P240 Ground and bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment. P242 Use non-sparking tools. P243 Take action to prevent static discharges. P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. P264 Wash skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. <b>Response:</b> P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. 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. P362 + P364 Take off contaminated clothing and wash it before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. <b>Storage:</b> P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P403 + P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. <b>Disposal:</b> P501 Dispose of contents/ container to an approved waste dis-

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Warning

posal plant.

: Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.

**Other hazards**

None known.

**Supplemental information**

If product is in liquid or paste form, physical or health hazards listed related to dust are not considered significant. However, product may contain substances that could be potential hazards if caused to become airborne due to grinding, sanding or other abrasive processes.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous ingredients**

Chemical name	CAS-No.	Concentration (% w/w)
ethyl acetate	141-78-6	>= 25 - < 50
butanone	78-93-3	>= 10 - < 20
Reaction product of Hexamethylene diisocyanate, oligomers with Mercaptopropyltrimethoxysilane	85702-90-5	>= 5 - < 10
n-butyl acetate	123-86-4	>= 5 - < 10
1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer with 1,3-diisocyanatomethylbenzene, .alpha.-hydro-.omega.-hydroxypoly[oxy(methyl)]	68958-67-8	>= 2 - < 5
2-methoxy-1-methylethyl acetate	108-65-6	>= 2 - < 5
xylenes	1330-20-7	>= 1 - < 2
ethylbenzene	100-41-4	>= 0.1 - < 1

**SECTION 4. FIRST AID MEASURES**

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this material safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air.  
Consult a physician after significant exposure.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.  
If symptoms persist, call a physician.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.

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- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do not induce vomiting without medical advice.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
Obtain medical attention.
- Most important symptoms and effects, both acute and delayed : irritant effects  
sensitizing effects  
Respiratory disorder  
Allergic reactions  
Excessive lachrymation  
Loss of balance  
Vertigo  
See Section 11 for more detailed information on health effects and symptoms.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
May cause drowsiness or dizziness.  
Suspected of causing cancer if inhaled.  
May cause damage to organs through prolonged or repeated exposure if inhaled.
- Notes to physician : Treat symptomatically.
- 

**SECTION 5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : Water  
High volume water jet
- Specific hazards during fire fighting : Do not use a solid water stream as it may scatter and spread fire.
- Further information : Use water spray to cool unopened containers.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.
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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Remove all sources of ignition.  
Deny access to unprotected persons.  
Beware of vapors accumulating to form explosive concentra-
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tions. Vapors can accumulate in low areas.

- Environmental precautions : Prevent product from entering drains. If the product contaminates rivers and lakes or drains inform respective authorities. Local authorities should be advised if significant spillages cannot be contained.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

## SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Use explosion-proof equipment. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Take precautionary measures against electrostatic discharges.
- Advice on safe handling : Do not breathe vapors or spray mist. Avoid exceeding the given occupational exposure limits (see section 8). Do not get in eyes, on skin, or on clothing. For personal protection see section 8. Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharge. Open drum carefully as content may be under pressure. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Follow standard hygiene measures when handling chemical products.
- Conditions for safe storage : Store in original container. Store in cool place. Keep in a well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Store in accordance with local regulations.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis

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ethyl acetate	141-78-6	TWA	400 ppm 1,440 mg/m3	CA AB OEL
		TWA	150 ppm	CA BC OEL
		TWAEV	400 ppm 1,440 mg/m3	CA QC OEL
		TWA	400 ppm	ACGIH
butanone	78-93-3	TWA	200 ppm 590 mg/m3	CA AB OEL
		STEL	300 ppm 885 mg/m3	CA AB OEL
		TWA	50 ppm	CA BC OEL
		STEL	100 ppm	CA BC OEL
		TWAEV	50 ppm 150 mg/m3	CA QC OEL
		STEV	100 ppm 300 mg/m3	CA QC OEL
		TWA	200 ppm	ACGIH
		STEL	300 ppm	ACGIH
n-butyl acetate	123-86-4	TWA	150 ppm 713 mg/m3	CA AB OEL
		STEL	200 ppm 950 mg/m3	CA AB OEL
		TWA	20 ppm	CA BC OEL
		TWAEV	150 ppm 713 mg/m3	CA QC OEL
		STEV	200 ppm 950 mg/m3	CA QC OEL
		TWA	50 ppm	ACGIH
		STEL	150 ppm	ACGIH
2-methoxy-1-methylethyl acetate	108-65-6	TWA	50 ppm	CA BC OEL
		STEL	75 ppm	CA BC OEL
		TWA	50 ppm 270 mg/m3	CA ON OEL
xylenes	1330-20-7	TWA	100 ppm 434 mg/m3	CA AB OEL
		STEL	150 ppm 651 mg/m3	CA AB OEL
		TWAEV	100 ppm 434 mg/m3	CA QC OEL
		STEV	150 ppm 651 mg/m3	CA QC OEL
		TWA	100 ppm	CA BC OEL
		STEL	150 ppm	CA BC OEL
		TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
ethylbenzene	100-41-4	TWA	100 ppm 434 mg/m3	CA AB OEL
		STEL	125 ppm 543 mg/m3	CA AB OEL
		TWA	20 ppm	CA BC OEL
		TWAEV	100 ppm 434 mg/m3	CA QC OEL

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		STEV	125 ppm 543 mg/m <sup>3</sup>	CA QC OEL
		TWA	20 ppm	ACGIH
		STEL	125 ppm	ACGIH

**Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Sam-pling time	Permissible concentra-tion	Basis
butanone	78-93-3	methyl ethyl ketone	Urine	End of shift (As soon as possible after exposure ceases)	2 mg/l	ACGIH BEI
xylenes	1330-20-7	Methylhip-puric acids	Urine	End of shift (As soon as possible after exposure ceases)	1.5 g/g cre-atinine	ACGIH BEI
ethylbenzene	100-41-4	Sum of mandelic acid and phenyl gly-oxalic acid	Urine	End of shift (As soon as possible after exposure ceases)	0.15 g/g creatinine	ACGIH BEI

**Engineering measures**

: Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.

**Personal protective equipment**

## Respiratory protection

: Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

## Hand protection

## Remarks

: Chemical-resistant, impervious gloves complying with an

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	approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Eye protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.
Skin and body protection	: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
Hygiene measures	: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Remove respiratory and skin/eye protection only after vapors have been cleared from the area. Remove contaminated clothing and protective equipment before entering eating areas. Wash thoroughly after handling.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: liquid
Color	: colorless
Odor	: ester-like
Odor Threshold	: No data available
pH	: ca. 7
Melting point/range / Freezing point	: No data available
Boiling point/boiling range	: 77 °C (171 °F)
Flash point	: -8 °C (18 °F) Method: closed cup
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: Upper flammability limit 12 %(V)
Lower explosion limit	: Lower flammability limit 2 %(V)
Vapor pressure	: ca. 60 hpa (45 mmHg)
Relative vapor density	: No data available



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Density : ca. 1 g/cm<sup>3</sup> (20 °C (68 °F) ( ))

Solubility(ies)  
Water solubility : insoluble

Partition coefficient: n-  
octanol/water : No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity  
Viscosity, dynamic : No data available

Viscosity, kinematic : > 7 mm<sup>2</sup>/s (40 °C)

Explosive properties : No data available

Molecular weight : No data available

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : The product is chemically stable.

Possibility of hazardous reac-  
tions : Stable under recommended storage conditions.  
Vapors may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : No data available

No decomposition if stored and applied as directed.

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 40 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

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000000019845**Components:****|| ethyl acetate:**

- Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg
- Acute inhalation toxicity : LC50 (Rat): ca. 1,600 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor
- Acute dermal toxicity : LD50 Dermal (Rabbit): > 5,000 mg/kg

**|| butanone:**

- Acute oral toxicity : LD50 Oral (Rat): 3,300 mg/kg
- Acute inhalation toxicity : LC50 (Rat): 36 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor
- Acute dermal toxicity : LD50 Dermal (Rabbit): > 5,000 mg/kg

**|| n-butyl acetate:**

- Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg
- Acute inhalation toxicity : LC50 (Rat): 23.4 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor
- Acute dermal toxicity : LD50 Dermal (Rabbit): > 5,000 mg/kg

**|| 2-methoxy-1-methylethyl acetate:**

- Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg
- Acute dermal toxicity : LD50 Dermal (Rabbit): > 5,000 mg/kg

**|| xylenes:**

- Acute oral toxicity : LD50 Oral (Rat): 3,523 mg/kg
- Acute dermal toxicity : LD50 Dermal (Rabbit): 1,700 mg/kg

**|| ethylbenzene:**

- Acute oral toxicity : LD50 Oral (Rat): 3,500 mg/kg
- Acute dermal toxicity : LD50 Dermal (Rabbit): 5,510 mg/kg

**Skin corrosion/irritation**

Not classified based on available information.

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Respiratory or skin sensitization**

Skin sensitization: May cause an allergic skin reaction.

Respiratory sensitization: Not classified based on available information.

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000000019845**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Suspected of causing cancer if inhaled.

**IARC** Group 2B: Possibly carcinogenic to humans

ethylbenzene 100-41-4

**NTP** Not applicable**Reproductive toxicity**

Not classified based on available information.

**STOT-single exposure**

May cause drowsiness or dizziness.

**STOT-repeated exposure**

May cause damage to organs (hearing organs) through prolonged or repeated exposure if inhaled.

**Aspiration toxicity**

Not classified based on available information.

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****Reaction product of Hexamethylene diisocyanate, oligomers with Mercaptopropyltrimethoxysilane:**

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l  
 Exposure time: 96 h  
 Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
 Exposure time: 48 h  
 Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (algae)): > 100 mg/l  
 Exposure time: 72 h  
 Method: OECD Test Guideline 201

**n-butyl acetate:**

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 647.7 mg/l  
 Exposure time: 72 h

**1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer with 1,3-diisocyanatomethylbenzene, alpha.-hydro.-omega.-hydroxypoly[oxy(methyl):**

Toxicity to bacteria : EC50 (Natural microorganism): > 10,000 mg/l  
 Method: OECD Test Guideline 209  
 Remarks: Information taken from reference works and the literature.

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### **|| xylenes:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 3.3 mg/l  
Exposure time: 96 h

### **Persistence and degradability**

No data available

### **Bioaccumulative potential**

No data available

### **Mobility in soil**

No data available

### **Other adverse effects**

### **Product:**

Additional ecological information : Do not empty into drains; dispose of this material and its container in a safe way.  
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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## SECTION 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

Waste from residues : Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

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## SECTION 14. TRANSPORT INFORMATION

### **Domestic regulation**

#### **TDG (road/train)**

UN number : UN 1866  
Proper shipping name : RESIN SOLUTION

Class : 3  
Packing group : II  
Labels : 3

### **International Regulations**

#### **IATA-DGR**

UN/ID No. : UN 1866  
Proper shipping name : Resin solution  
Class : 3  
Packing group : II

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Labels : Flammable Liquids  
Packing instruction (cargo aircraft) : 364  
Packing instruction (passenger aircraft) : 353

### IMDG-Code

UN number : UN 1866  
Proper shipping name : RESIN SOLUTION

Class : 3  
Packing group : II  
Labels : 3  
EmS Code : F-E, S-E  
Marine pollutant : no

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### Domestic regulation

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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## SECTION 15. REGULATORY INFORMATION

### Canadian lists

No substances are subject to a Significant New Activity Notification.

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## SECTION 16. OTHER INFORMATION

Revision Date : 11/30/2018  
Prepared by : R & D of Sika Canada Inc.

### Notice to Reader:

The information contained in this Material Safety Data Sheet applies only to the actual Sika Canada product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified Sika product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that Sika believes to be reliable as of the date hereof. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's current Product Data Sheet, product label and Material Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed.

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All sales of Sika products are subject to its current terms and conditions of sale available at [www.sika.ca](http://www.sika.ca) or 514-697-2610.

### Full text of other abbreviations

ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
CAS	Chemical Abstracts Service
DNEL	Derived no-effect level
EC50	Half maximal effective concentration
GHS	Globally Harmonized System
IATA	International Air Transport Association
IMDG	International Maritime Code for Dangerous Goods
LD50	Median lethal dose (the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals)
LC50	Median lethal concentration (concentrations of the chemical in air that kills 50% of the test animals during the observation period)
MARPOL	International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978
OEL	Occupational Exposure Limit
PBT	Persistent, bioaccumulative and toxic
PNEC	Predicted no effect concentration
REACH	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency
SVHC	Substances of Very High Concern
vPvB	Very persistent and very bioaccumulative

CA / Z8