

Productname : Flaw Detector Developer 3
Ref.Nr.: BDS000078_3_20141112 (EN)
Creationdate : 12.11.14 Version : 2.0
Replaces: BDS000078_20110908

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Flaw Detector Developer 3
Aerosol

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

Welding Products

1.3. Details of the supplier of the safety data sheet

CRC Industries UK Ltd.
Ambersil House - Wylds Road
Castlefield Industrial Estate
TA6 4DD Bridgwater Somerset
United Kingdom
Tel.: +44 1278 727200
Fax.: +44 1278 425644
E-mail : hse.uk@crcind.com

1.4. Emergency telephone number

(+44)(0)1278 72 7200

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Physical:	Aerosols, category 1 Extremely flammable aerosol. Pressurised container: May burst if heated.
Health:	Skin irritation, category 2 Causes skin irritation. Eye irritation, category 2 Causes serious eye irritation. Specific target organ toxicity - single exposure, category 3 May cause drowsiness or dizziness.
Environment:	Hazardous to the aquatic environment, chronic category 2 Toxic to aquatic life with long lasting effects.
Other hazards :	None

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Classification according to 67/548/EEC or 1999/45/EC:

EXTREMELY FLAMMABLE

Xi : IRRITANT

N : DANGEROUS FOR THE ENVIRONMENT

Health: R38: Irritating to skin.
R67: Vapours may cause drowsiness and dizziness.

Physical: EXTREMELY FLAMMABLE

Environment: R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements**Labelling according to Regulation (EC) No 1272/2008**

Product identifier: Contains:
hydrocarbons

Hazard pictogram(s):

Signal word: Danger

Hazard statement(s): H222 : Extremely flammable aerosol.
H229 : Pressurised container: May burst if heated.
H315 : Causes skin irritation.
H319 : Causes serious eye irritation.
H336 : May cause drowsiness or dizziness.
H411 : Toxic to aquatic life with long lasting effects.

Precautionary statement(s): P102 : Keep out of reach of children.
P210 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 : Do not spray on an open flame or other ignition source.
P251 : Do not pierce or burn, even after use.
P261 : Avoid breathing dust/fume/gas/mist/vapours/spray.
P271 : Use only outdoors or in a well-ventilated area.
P410/412 : Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P501-2 : Dispose of contents/container to an authorised waste collection point.

Supplemental Hazard information: None

2.3. Other hazards

None

SECTION 3: Composition/information on ingredients**3.1. Substances**

Not applicable.

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3.2. Mixtures

Hazardous ingredient	CAS-nr.	EC-nr	w/w %	symbol	R-phrases*	Notes
Hydrocarbons,C3-4-rich, petroleum distillate Petroleumgas (1,3-butadiene < 0.1%)	68512-91-4	270-990-9	25-50	F+	12	K,G
pentane	109-66-0	203-692-4	10-25	F+,Xn,N	12-51/53-65-66-67	A
hydrocarbons,C6,isoalkanes,< 5% n-hexane	-	931-254-9	10-25	F,Xn,N	11-38-51/53-65-67	B,P
titanium dioxide	13463-67-7	236-675-5	5-10	-	-	B
propan-2-ol; isopropyl alcohol ;isopropanol	67-63-0	200-661-7	1-5	F,Xi	11-36-67	B
alcohols, C9-11, ethoxylated	68439-46-3		<1	Xn	22-41	
Fatty acids, tall-oil, compds. with (Z)-N-9-octadecenyl-1,3-propanediamine (2:1)	91845-13-5	295-184-4	<1	Xi,N	38-41-50	

Explanation notes

A : substance with Community workplace exposure limit

B : substance with national established workplace exposure limit

G : exempted from the obligation to register in accordance with art.2(7)(a)of REACH Regulation No 1907/2006

K : not classified as carcinogen, less than 0.1% w/w 1,3-butadiene (Einecs-nr. 203-450-8)

P : not classified as carcinogen, less than 0.1% w/w benzene (Einecs-nr. 200-753-7)

Hazardous ingredient	Registration number	CAS-nr.	EC-nr	w/w %	Hazard Class and Category	Hazard statement	Notes
Hydrocarbons,C3-4-rich, petroleum distillate Petroleumgas (1,3-butadiene < 0.1%)	-	68512-91-4	270-990-9	25-50	Press. Gas, Flam. Gas 1	H280,H220	K,G
pentane	01-2119459286-30	109-66-0	203-692-4	10-25	Flam. Liq. 2, Asp. Tox. 1, STOT SE 3, Aquatic Chronic 2	H225,H304,H336,H411	A
hydrocarbons,C6,isoalkanes,< 5% n-hexane	01-2119484651-34	-	931-254-9	10-25	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2	H225,H315,H336,H304,H411	B,P
titanium dioxide		13463-67-7	236-675-5	5-10	-	-	B
propan-2-ol; isopropyl alcohol ;isopropanol	01-2119457558-25	67-63-0	200-661-7	1-5	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3	H225,H319,H336	B
alcohols, C9-11, ethoxylated		68439-46-3		<1	Acute Tox. 4, Eye Dam. 1	H302,H318	
Fatty acids, tall-oil, compds. with (Z)-N-9-octadecenyl-1,3-propanediamine (2:1)		91845-13-5	295-184-4	<1	Skin Irrit. 2, Eye Dam. 1, Aquatic Acute 1	H315,H318,H400	

Explanation notes

A : substance with Community workplace exposure limit

B : substance with national established workplace exposure limit

G : exempted from the obligation to register in accordance with art.2(7)(a)of REACH Regulation No 1907/2006

K : not classified as carcinogen, less than 0.1% w/w 1,3-butadiene (Einecs-nr. 203-450-8)

P : not classified as carcinogen, less than 0.1% w/w benzene (Einecs-nr. 200-753-7)

(* Explanation phrases : see chapter 16)

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SECTION 4: First aid measures

4.1. Description of first aid measures

Contact with eyes :	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Contact with skin :	Take off contaminated clothing and wash before reuse. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
Inhalation :	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Ingestion :	If swallowed do not induce vomiting because of risk of aspiration into the lungs. If aspiration is suspected obtain immediate medical attention

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

Inhalation :	Excessive inhalation of solvent vapours may give rise to nausea, headaches and dizziness
Ingestion :	After vomiting of swallowed product aspiration into lungs is likely. Solvents may induce chemical pneumonia. Symptoms : sore throat, abdominal pain, nausea, vomiting
Skin contact :	Irritating to skin Symptoms : redness and pain
Eye contact :	Irritating to eyes Symptoms : redness and pain, impaired vision

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

General Advice :	If you feel unwell, seek medical advice (show the label where possible) If symptoms persist always call a doctor
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SECTION 5: Firefighting measures

5.1. Extinguishing media

foam, carbon dioxide or dry agent

5.2. Special hazards arising from the substance or mixture

Aerosols may explode if heated above 50°C
Forms hazardous decomposition products
CO,CO2

5.3. Advice for firefighters

Keep container(s) exposed to fire cool, by spraying with water
In case of fire, do not breathe fumes

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Shut off all ignition sources
Ensure adequate ventilation
Wear suitable protective clothing and gloves.

6.2. Environmental precautions

Do not allow to enter public sewers and watercourses
If polluted water reaches drainage systems or water courses, immediately inform appropriate authorities

6.3. Methods and material for containment and cleaning up

Absorb spillage in suitable inert material
Place in appropriate container
This material and/or its container must be disposed of as hazardous waste.

6.4. Reference to other sections

For further information see section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Keep away from heat and sources of ignition
Take precautionary measures against static discharges
Equipment should be earthed
Use explosion-proof electrical/ventilating/lighting/.../equipment.
Use only non-sparking tools.
Do not breathe aerosols or vapours.
Ensure adequate ventilation
Avoid contact with skin and eyes.
Wash thoroughly after use
Wear protective gloves/protective clothing/eye protection/face protection.
Eyewash bottles should be available

7.2. Conditions for safe storage, including any incompatibilities

Pressurized container : protect from sunlight and do not expose to temperatures exceeding 50°C.
Keep out of reach of children.

7.3. Specific end use(s)

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits :

Hazardous ingredient	CAS-nr.	method	
EU established exposure limits:			
pentane	109-66-0	TWA	1000 ppm
propan-2-ol; isopropyl alcohol ;isopropanol	67-63-0	TWA	400 ppm
		STEL	500 ppm
National established exposure limits, United Kingdom			
pentane	109-66-0	TWA	600 ppm

8.2. Exposure controls

Control procedures :	Ensure adequate ventilation Keep away from heat and sources of ignition Take precautionary measures against static discharges
Personal protection :	Take precautions to avoid contact with skin and eyes when handling the product. Ensure adequate ventilation
inhalation :	In case of insufficient ventilation, wear suitable respiratory equipment. Air purifying respirator equipped with organic gas/vapor cartridge (type A)
hands and skin :	Wear suitable protective gloves against chemicals Nitrile
eyes :	Wear safety goggles.
Environmental protection:	Avoid release to the environment. Collect spillage.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

(for aerosols data for the product without propellant)

Apperance : physical state :	Propane/butane propelled liquid.
colour :	White.
odour :	Solvent.
pH :	Not applicable.
Boiling point/range :	Not available.
Flash point :	< 0 °C (Closed Cup)
Evaporation rate :	Not available.
Explosion limits : upper limit :	Not available.
lower limit :	Not available.
Vapour pressure :	Not available.
Relative density :	0.765 g/cm ³ (@ 20°C).
Solubility in water :	Insoluble in water

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Auto-ignition : > 200 °C
Viscosity : Not applicable.

9.2. Other information

VOC: 590 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions known if used for its intended purpose

10.2. Chemical stability

Stable

10.3. Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose

10.4. Conditions to avoid

Avoid overheating

10.5. Incompatible materials

Strong oxidising agent

10.6. Hazardous decomposition products

CO,CO2

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Inhalation : Inhalation of solvent vapours may give rise to nausea, headaches and dizziness
Ingestion : After vomiting of swallowed product aspiration into lungs is likely. Solvents may induce chemical pneumonia.
Skin contact : Irritating to skin
Eye contact : Irritating to eyes

Toxicological data :

Hazardous ingredient	CAS-nr.	method
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pentane	109-66-0	LD50 oral rat	> 5000 mg/kg
		LD50 derm.rabit	> 3000 mg/kg
titanium dioxide	13463-67-7	LD50 oral rat	> 10000 mg/kg
		LC50 inhal.rat	6.8 mg/l
		LD50 derm.rabit	> 10000 mg/kg
propan-2-ol; isopropyl alcohol ;isopropanol	67-63-0	LD50 oral rat	> 5000 mg/kg
		LC50 inhal.rat	> 20 mg/l
		LD50 derm.rabit	> 5000 mg/kg
alcohols, C9-11, ethoxylated	68439-46-3	LD50 oral rat	1000-1400 mg/kg
		LD50 derm.rabit	>2000 mg/kg
hydrocarbons,C6,isoalkanes,< 5% n-hexane	-	LD50 oral rat	> 5000 mg/kg
		LC50 inhal.rat	> 20 mg/l
		LD50 derm.rabit	> 3000 mg/kg

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, chronic category 2
 Toxic to aquatic life with long lasting effects.

Ecotoxicological data:

Hazardous ingredient	CAS-nr.	method	
titanium dioxide	13463-67-7	LC50 fish	1000 mg/l
		EC50 daphnia	> 3 mg/l
propan-2-ol; isopropyl alcohol ;isopropanol	67-63-0	IC50 algae	> 1000 mg/l
		LC50 fish	> 1000 mg/l
		EC50 daphnia	> 1000 mg/l
alcohols, C9-11, ethoxylated	68439-46-3	LC50 fish	10-100 mg/l
		EC50 daphnia	5-25 mg/l
hydrocarbons,C6,isoalkanes,< 5% n-hexane	-	IC50 algae	55 mg/l
		LC50 fish	> 1 mg/l
		EC50 daphnia	3.87 mg/l

12.2. Persistence and degradability

No experimental data available

12.3. Bioaccumulative potential

No experimental data available

12.4. Mobility in soil

Insoluble in water

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12.5. Results of PBT and vPvB assessment

No information available

12.6. Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product : This material and its container must be disposed of in a safe way. Do not discharge into drains or the environment, dispose to an authorised waste collection point.
National regulations : Disposal should be in accordance with local, state or national legislation

SECTION 14: Transport information

14.1. UN number

UN-number : 1950

14.2. UN proper shipping name

Proper shipping name: AEROSOLS (naphta, pentane)

14.3. Transport hazard class(es)

Class: 2.1
ADR/RID - Classification code: 5F

14.4. Packing group

Packing group: Not applicable.

14.5. Environmental hazards

ADR/RID - Environmentally hazardous: Yes
IMDG - Marine pollutant: Marine pollutant
IATA/ICAO - Environmentally hazardous: Yes

14.6. Special precautions for user

ADR/RID - Tunnelcode: (D)
IMDG - Ems: F-D, S-U

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IATA/CAO - PAX: 203
IATA/CAO - CAO 203

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

The Safety Data Sheet is compiled according to the current European requirements.
Dir. 2013/10/EU, 2008/47/EC amendment of the aerosol dispenser directive 75/324/EEC.
Regulation (EC) No 1907/2006 (REACH)
EU-directive 99/45/EC
Regulation (EC) No 1272/2008 (CLP)

15.2. Chemical safety assessment

No information available

SECTION 16: Other information

*Explanation risk-phrases: R11: Highly flammable.
R12: Extremely flammable.
R22: Harmful if swallowed.
R36: Irritating to eyes.
R38: Irritating to skin.
R41: Risk of serious damage to eyes.
R50: Very toxic to aquatic organisms.
R65: Harmful: may cause lung damage if swallowed.
R66: Repeated exposure may cause skin dryness or cracking.
R67: Vapours may cause drowsiness and dizziness.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

*Explanation hazard statements: - : -
H220 : Extremely flammable gas.
H225 : Highly flammable liquid and vapour.
H280 : Contains gas under pressure; may explode if heated.
H302 : Harmful if swallowed.
H304 : May be fatal if swallowed and enters airways.
H315 : Causes skin irritation.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.
H336 : May cause drowsiness or dizziness.
H400 : Very toxic to aquatic life.
H411 : Toxic to aquatic life with long lasting effects.

REVISIONS IN CHAPTRE : 2.2. Label elements

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation.

The information contained herewith is based on the present state of our knowledge and is intended to describe

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