

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

1.1. Product identifier

Trade name or designation of the mixture	Cross Check Plus Skydrol - Resistant Torque Seal
Registration number	-
Synonyms	Formula Code: B143M(yellow), B139M(pink)
Part Number	83417(yellow); 83420(pink)
Issue date	05-May-2017
Version number	03
Revision date	23-August-2017
Supersedes date	18-May-2017

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

Identified uses	Industrial Use Only
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

Manufacturer

Company name	ITW Pro Brands
Address	805 E. Old 56 Highway Olathe, KS 66061
Country	(U.S.A.) Tel: +1 800-443-9536
In Case of Emergency	1-800-535-5053 (Infotrac)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification F;R11, Muta. Cat. 2;R46, Xi;R36, R66-67, R52/53

The full text for all R-phrases is displayed in section 16.

Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards

Flammable liquids	Category 2	H225 - Highly flammable liquid and vapour.
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Health hazards

Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.
Germ cell mutagenicity	Category 1B	H340 - May cause genetic defects.
Specific target organ toxicity - single exposure	Category 3 narcotic effects	H336 - May cause drowsiness or dizziness.

Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard	Category 3	H412 - Harmful to aquatic life with long lasting effects.
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Hazard summary

Physical hazards	Highly flammable.
Health hazards	May cause cancer. May cause heritable genetic damage. Irritating to eyes. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness. Occupational exposure to the substance or mixture may cause adverse health effects.
Environmental hazards	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Specific hazards	Prolonged exposure may cause chronic effects.
Main symptoms	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Diacetone alcohol, Kaolin, METHYL BENZIMIDAZOLE-2-YL CARBAMATE, Methyl ethyl ketone, Mica Group Minerals, Pigment, Rutile(TiO₂), Tin Oxide (SnO₂)

Hazard pictograms



Signal word Danger

Hazard statements

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H340 May cause genetic defects.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

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/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing mist or vapour.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
P312 Call a POISON CENTRE/doctor if you feel unwell.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P370 + P378 In case of fire: Use appropriate media to extinguish.

Storage

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.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information EUH066 - Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Methyl ethyl ketone	30 - 40	78-93-3 201-159-0	-	606-002-00-3	#
Classification:		DSD: F;R11, Xi;R36, R66-67 CLP: Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336			
Mica Group Minerals	10 - 20	12001-26-2	-	-	
Classification:		DSD: - CLP: -			

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Rutile(TiO2)	5 - 15	1317-80-2 215-282-2	-	-	
Classification:	DSD: - CLP: -				
Pigment	1 - 5	Proprietary -	-	-	
Classification:	DSD: - CLP: -				
Diacetone alcohol	1 - 3	123-42-2 204-626-7	-	603-016-00-1	
Classification:	DSD: Xi;R36 CLP: Flam. Liq. 3;H226, Eye Irrit. 2;H319, STOT SE 3;H335				
Kaolin	0,1 - 1	1332-58-7 310-194-1	-	-	
Classification:	DSD: - CLP: -				
Tin Oxide (SnO2)	0,1 - 1	18282-10-5 242-159-0	-	-	
Classification:	DSD: - CLP: -				
METHYL BENZIMIDAZOLE-2-YI CARBAMATE	< 0,2	10605-21-7 234-232-0	-	613-048-00-8	
Classification:	DSD: Muta. Cat. 2;R46, Repr. Cat. 2;R60-61, N;R50/53 CLP: Acute Tox. 4;H312, Muta. 1B;H340, Aquatic Acute 1;H400, Aquatic Chronic 1;H410				
3-IODO-2-PROPYNYL-BUTYLCARB AMATE	< 0,1	55406-53-6 259-627-5	-	616-212-00-7	M=10
Classification:	DSD: T;R23-48/23, Xn;R22, Xi;R41, R43, N;R50 CLP: Acute Tox. 4;H302, Skin Sens. 1;H317, Eye Dam. 1;H318, STOT RE 1;H372, Aquatic Acute 1;H400, Aquatic Chronic 1;H410				

List of abbreviations and symbols that may be used above

DSD: Directive 67/548/EEC.

CLP: Regulation No. 1272/2008.

#: This substance has been assigned Union workplace exposure limit(s).

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments

The full text for all R- and H-phrases is displayed in section 16.

SECTION 4: First aid measures

General information

Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

4.1. Description of first aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.

Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion

Rinse mouth. Get medical attention if symptoms occur.

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

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards Highly flammable liquid and vapour.

5.1. Extinguishing media

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture Vapours may form explosive mixtures with air. Vapours may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapour. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.

For emergency responders Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers.

6.4. Reference to other sections Use personal protection recommended in Section 8 of the SDS. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist or vapour. Avoid contact with eyes. Avoid prolonged exposure. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

7.3. Specific end use(s) Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001

Components	Type	Value
Diacetone alcohol (CAS 123-42-2)	MAK	240 mg/m3
Methyl ethyl ketone (CAS 78-93-3)		50 ppm
	MAK	295 mg/m3
	STEL	100 ppm 590 mg/m3 200 ppm

Belgium. Exposure Limit Values.

Components	Type	Value	Form
Diacetone alcohol (CAS 123-42-2)	TWA	241 mg/m3	
Kaolin (CAS 1332-58-7) Methyl ethyl ketone (CAS 78-93-3)	TWA	50 ppm 2 mg/m3	Respirable fraction.
	STEL	900 mg/m3	
	TWA	300 ppm 600 mg/m3	
Mica Group Minerals (CAS 12001-26-2)	TWA	200 ppm 3 mg/m3	

Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

Components	Type	Value	Form
Kaolin (CAS 1332-58-7)	TWA	6 mg/m3	Inhalable fraction.
		3 mg/m3	Respirable fraction.
Methyl ethyl ketone (CAS 78-93-3)	STEL	885 mg/m3	
	TWA	590 mg/m3	
Mica Group Minerals (CAS 12001-26-2)	TWA	6 mg/m3	Inhalable fraction.
		3 mg/m3	Respirable fraction.

Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09

Components	Type	Value	Form
Diacetone alcohol (CAS 123-42-2)	MAC	241 mg/m3	
	STEL	50 ppm 362 mg/m3	
		75 ppm	
Kaolin (CAS 1332-58-7) Methyl ethyl ketone (CAS 78-93-3)	MAC	2 mg/m3	Respirable dust.
	MAC	600 mg/m3	
	STEL	200 ppm 900 mg/m3 300 ppm	
Mica Group Minerals (CAS 12001-26-2)	MAC	10 mg/m3	Total dust.
		0,8 mg/m3	Respirable dust.

Czech Republic. OELs. Government Decree 361

Components	Type	Value	Form
Diacetone alcohol (CAS 123-42-2)	Ceiling	300 mg/m3	
	TWA	200 mg/m3	
Methyl ethyl ketone (CAS 78-93-3)	Ceiling	900 mg/m3	
	TWA	600 mg/m3	
Mica Group Minerals (CAS 12001-26-2)	TWA	10 mg/m3	Total dust.
		10 mg/m3	Respirable dust.

Denmark. Exposure Limit Values Components

Components	Type	Value	Form
Diacetone alcohol (CAS 123-42-2)	TLV	240 mg/m3	
		50 ppm	
Kaolin (CAS 1332-58-7)	TLV	2 mg/m3	Respirable.
Methyl ethyl ketone (CAS 78-93-3)	TLV	145 mg/m3	
		50 ppm	

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)

Components	Type	Value	Form
Diacetone alcohol (CAS 123-42-2)	STEL	240 mg/m3	
		50 ppm	
	TWA	120 mg/m3	
		25 ppm	
Methyl ethyl ketone (CAS 78-93-3)	STEL	900 mg/m3	
		300 ppm	
	TWA	600 mg/m3	
		200 ppm	

Finland. Workplace Exposure Limits Components

Components	Type	Value	Form
Diacetone alcohol (CAS 123-42-2)	STEL	360 mg/m3	
		75 ppm	
	TWA	240 mg/m3	
		50 ppm	
Kaolin (CAS 1332-58-7)	TWA	2 mg/m3	Respirable.
Methyl ethyl ketone (CAS 78-93-3)	STEL	300 mg/m3	
		100 ppm	
Mica Group Minerals (CAS 12001-26-2)	TWA	10 mg/m3	Dust.
Tin Oxide (SnO2) (CAS 18282-10-5)	TWA	2 mg/m3	

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

Components	Type	Value	Form
Diacetone alcohol (CAS 123-42-2)	VME	240 mg/m3	
		50 ppm	
Methyl ethyl ketone (CAS 78-93-3)	VLE	900 mg/m3	
		300 ppm	
	VME	600 mg/m3	
		200 ppm	

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value	Form
3-IODO-2-PROPYNYL-BUT YLCARBAMATE (CAS 55406-53-6)	TWA	0,058 mg/m3	
		0,005 ppm	
Diacetone alcohol (CAS 123-42-2)	TWA	96 mg/m3	
		20 ppm	
METHYL BENZIMIDAZOLE-2-YI CARBAMATE (CAS 10605-21-7)	TWA	10 mg/m3	Inhalable fraction.
Methyl ethyl ketone (CAS 78-93-3)	TWA	600 mg/m3	
		200 ppm	

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Components	Type	Value	Form
Diacetone alcohol (CAS 123-42-2)	AGW	96 mg/m3	
METHYL BENZIMIDAZOLE-2-YL CARBAMATE (CAS 10605-21-7)	AGW	20 ppm 10 mg/m3	Inhalable fraction.
Methyl ethyl ketone (CAS 78-93-3)	AGW	600 mg/m3 200 ppm	

Greece. OELs (Decree No. 90/1999, as amended)

Components	Type	Value	
Diacetone alcohol (CAS 123-42-2)	STEL	360 mg/m3	
	TWA	75 ppm 240 mg/m3	
Methyl ethyl ketone (CAS 78-93-3)	STEL	50 ppm 900 mg/m3	
	TWA	300 ppm 600 mg/m3 200 ppm	

Hungary. OELs. Joint Decree on Chemical Safety of Workplaces

Components	Type	Value	
Methyl ethyl ketone (CAS 78-93-3)	STEL	900 mg/m3	
	TWA	600 mg/m3	

Iceland. OELs. Regulation 154/1999 on occupational exposure limits

Components	Type	Value	Form
Diacetone alcohol (CAS 123-42-2)	TWA	240 mg/m3	
Kaolin (CAS 1332-58-7)	TWA	50 ppm 2 mg/m3	Respirable dust.
Methyl ethyl ketone (CAS 78-93-3)	STEL	900 mg/m3	
	TWA	300 ppm 145 mg/m3 50 ppm	

Ireland. Occupational Exposure Limits

Components	Type	Value	Form
Diacetone alcohol (CAS 123-42-2)	TWA	240 mg/m3	
Kaolin (CAS 1332-58-7)	TWA	50 ppm 2 mg/m3	Respirable dust.
Methyl ethyl ketone (CAS 78-93-3)	STEL	900 mg/m3	
	TWA	300 ppm 600 mg/m3 200 ppm	
Mica Group Minerals (CAS 12001-26-2)	TWA	10 mg/m3	Total inhalable dust.
		0,8 mg/m3	Respirable dust.

Italy. Occupational Exposure Limits

Components	Type	Value	Form
Diacetone alcohol (CAS 123-42-2)	TWA	50 ppm	
Kaolin (CAS 1332-58-7)	TWA	2 mg/m3	Respirable fraction.
Methyl ethyl ketone (CAS 78-93-3)	STEL	900 mg/m3	
	TWA	300 ppm 600 mg/m3	

Italy. Occupational Exposure Limits

Components	Type	Value	Form
Mica Group Minerals (CAS 12001-26-2)	TWA	200 ppm 3 mg/m3	Respirable fraction.

Latvia. OELs. Occupational exposure limit values of chemical substances in work environment

Components	Type	Value
Methyl ethyl ketone (CAS 78-93-3)	STEL	900 mg/m3
	TWA	300 ppm 200 mg/m3 67 ppm

Lithuania. OELs. Limit Values for Chemical Substances, General Requirements

Components	Type	Value
Diacetone alcohol (CAS 123-42-2)	STEL	240 mg/m3
	TWA	50 ppm 120 mg/m3 25 ppm
Methyl ethyl ketone (CAS 78-93-3)	STEL	900 mg/m3
	TWA	300 ppm 600 mg/m3 200 ppm

Luxembourg. Binding Occupational exposure limit values (Annex I), Memorial A

Components	Type	Value
Methyl ethyl ketone (CAS 78-93-3)	STEL	900 mg/m3
	TWA	300 ppm 600 mg/m3 200 ppm

Malta. OELs. Occupational Exposure Limit Values (L.N. 227. of Occupational Health and Safety Authority Act (CAP. 424), Schedules I and V)

Components	Type	Value
Methyl ethyl ketone (CAS 78-93-3)	STEL	900 mg/m3
	TWA	300 ppm 600 mg/m3 200 ppm

Netherlands. OELs (binding)

Components	Type	Value
Methyl ethyl ketone (CAS 78-93-3)	STEL	900 mg/m3
	TWA	590 mg/m3

Norway. Administrative Norms for Contaminants in the Workplace

Components	Type	Value
Diacetone alcohol (CAS 123-42-2)	TLV	120 mg/m3
		25 ppm
Methyl ethyl ketone (CAS 78-93-3)	TLV	220 mg/m3
		75 ppm

Poland. MACs. Regulation regarding maximum permissible concentrations and intensities of harmful factors in the work environment, Annex 1

Components	Type	Value	Form
Diacetone alcohol (CAS 123-42-2)	TWA	240 mg/m3	
Kaolin (CAS 1332-58-7)	TWA	10 mg/m3	Inhalable fraction.
METHYL BENZIMIDAZOLE-2-YL CARBAMATE (CAS 10605-21-7)	TWA	10 mg/m3	

Poland. MACs. Regulation regarding maximum permissible concentrations and intensities of harmful factors in the work environment, Annex 1

Components	Type	Value	Form
Methyl ethyl ketone (CAS 78-93-3)	STEL	900 mg/m3	
	TWA	450 mg/m3	

Portugal. OELs. Decree-Law n. 290/2001 (Journal of the Republic - 1 Series A, n.266)

Components	Type	Value	Form
Methyl ethyl ketone (CAS 78-93-3)	STEL	900 mg/m3	
	TWA	300 ppm	
		600 mg/m3	
		200 ppm	

Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)

Components	Type	Value	Form
Diacetone alcohol (CAS 123-42-2)	TWA	50 ppm	
Kaolin (CAS 1332-58-7)	TWA	2 mg/m3	Respirable fraction.
Methyl ethyl ketone (CAS 78-93-3)	STEL	300 ppm	
	TWA	200 ppm	
Mica Group Minerals (CAS 12001-26-2)	TWA	3 mg/m3	Respirable fraction.

Romania. OELs. Protection of workers from exposure to chemical agents at the workplace

Components	Type	Value	Form
Diacetone alcohol (CAS 123-42-2)	STEL	250 mg/m3	
	TWA	53 ppm	
		150 mg/m3	
Kaolin (CAS 1332-58-7)	TWA	32 ppm	
	TWA	2 mg/m3	Inhalable fraction.
Methyl ethyl ketone (CAS 78-93-3)	STEL	900 mg/m3	
	TWA	300 ppm	
		600 mg/m3	
Mica Group Minerals (CAS 12001-26-2)	TWA	200 ppm	
		3 mg/m3	Inhalable fraction.

Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents

Components	Type	Value	Form
Methyl ethyl ketone (CAS 78-93-3)	STEL	900 mg/m3	
	TWA	300 ppm	
		600 mg/m3	
Mica Group Minerals (CAS 12001-26-2)	TWA	200 ppm	
		2 mg/m3	Respirable fraction.
		2 mg/m3	Respirable fraction.
		10 mg/m3	Total

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

Components	Type	Value	Form
Diacetone alcohol (CAS 123-42-2)	TWA	240 mg/m3	
Methyl ethyl ketone (CAS 78-93-3)	TWA	50 ppm	
		600 mg/m3	
			200 ppm

Spain. Occupational Exposure Limits

Components	Type	Value	Form
Diacetone alcohol (CAS 123-42-2)	TWA	241 mg/m3	
		50 ppm	

Spain. Occupational Exposure Limits

Components	Type	Value	Form
Kaolin (CAS 1332-58-7)	TWA	2 mg/m3	Respirable fraction.
Methyl ethyl ketone (CAS 78-93-3)	STEL	900 mg/m3	
	TWA	300 ppm 600 mg/m3 200 ppm	
Mica Group Minerals (CAS 12001-26-2)	TWA	3 mg/m3	Respirable fraction.

Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7)

Components	Type	Value
Diacetone alcohol (CAS 123-42-2)	STEL	240 mg/m3
	TWA	50 ppm 120 mg/m3 25 ppm
Methyl ethyl ketone (CAS 78-93-3)	Ceiling	900 mg/m3
	TWA	300 ppm 150 mg/m3 50 ppm

Switzerland. SUVA Grenzwerte am Arbeitsplatz

Components	Type	Value	Form
3-IODO-2-PROPYNYL-BUT YLCARBAMATE (CAS 55406-53-6)	STEL	0,24 mg/m3	
	TWA	0,02 ppm 0,12 mg/m3 0,01 ppm	
Diacetone alcohol (CAS 123-42-2)	STEL	192 mg/m3	
	TWA	40 ppm 96 mg/m3 20 ppm	
Kaolin (CAS 1332-58-7)	TWA	3 mg/m3	Respirable dust.
METHYL BENZIMIDAZOLE-2-YI CARBAMATE (CAS 10605-21-7)	STEL	40 mg/m3	Inhalable dust.
	TWA	10 mg/m3	Inhalable dust.
Methyl ethyl ketone (CAS 78-93-3)	STEL	590 mg/m3	
	TWA	200 ppm 590 mg/m3 200 ppm	
Mica Group Minerals (CAS 12001-26-2)	TWA	3 mg/m3	Respirable dust.

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value	Form
Diacetone alcohol (CAS 123-42-2)	STEL	362 mg/m3	
	TWA	75 ppm 241 mg/m3 50 ppm	
Kaolin (CAS 1332-58-7)	TWA	2 mg/m3	Respirable dust.
Methyl ethyl ketone (CAS 78-93-3)	STEL	899 mg/m3	
	TWA	300 ppm 600 mg/m3 200 ppm	
Mica Group Minerals (CAS 12001-26-2)	TWA	10 mg/m3	Inhalable
		0,8 mg/m3	Respirable.

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU

Components	Type	Value
Methyl ethyl ketone (CAS 78-93-3)	STEL	900 mg/m ³
	TWA	300 ppm
		600 mg/m ³
		200 ppm

Biological limit values

Croatia. BLV. Dangerous Substance Exposure Limit Values at Workplace, Annexes 4 (as amended)

Components	Value	Determinant	Specimen	Sampling time
Methyl ethyl ketone (CAS 78-93-3)	2,6 mg/g	2-Butanone (Methyl ethyl ketone)	Creatinine in urine	*
	4,08 mmol/mol	2-Butanone (Methyl ethyl ketone)	Creatinine in urine	*

* - For sampling details, please see the source document.

France. Biological indicators of exposure (IBE) (National Institute for Research and Security (INRS, ND 2065)

Components	Value	Determinant	Specimen	Sampling time
Methyl ethyl ketone (CAS 78-93-3)	2 mg/l	Méthyléthylcétone	Urine	*

* - For sampling details, please see the source document.

Germany. TRGS 903, BAT List (Biological Limit Values)

Components	Value	Determinant	Specimen	Sampling time
Methyl ethyl ketone (CAS 78-93-3)	2 mg/l	2-Butanon	Urine	*

* - For sampling details, please see the source document.

Spain. Biological Limit Values (VLBs), Occupational Exposure Limits for Chemical Agents, Table 4

Components	Value	Determinant	Specimen	Sampling time
Methyl ethyl ketone (CAS 78-93-3)	2 mg/l	Metiletilcetona	Urine	*

* - For sampling details, please see the source document.

Switzerland. BAT-Werte (Biological Limit Values in the Workplace as per SUVA)

Components	Value	Determinant	Specimen	Sampling time
Methyl ethyl ketone (CAS 78-93-3)	2 mg/l	2-Butanon (MEK)	Urine	*

* - For sampling details, please see the source document.

UK. EH40 Biological Monitoring Guidance Values (BMGVs)

Components	Value	Determinant	Specimen	Sampling time
Methyl ethyl ketone (CAS 78-93-3)	70 umol/l	Butan-2-one	Urine	*

* - For sampling details, please see the source document.

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no effect levels (DNELs) Not available.

Predicted no effect concentrations (PNECs) Not available.

Exposure guidelines

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

Diacetone alcohol (CAS 123-42-2) Can be absorbed through the skin.

8.2. Exposure controls

Appropriate engineering controls Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station. Eye wash fountain and emergency showers are recommended.

Individual protection measures, such as personal protective equipment

General information	Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection	
- Hand protection	Wear appropriate chemical resistant gloves.
- Other	Wear suitable protective clothing. Use of an impervious apron is recommended.
Respiratory protection	Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
Hygiene measures	Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
Environmental exposure controls	Inform appropriate managerial or supervisory personnel of all environmental releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state	Liquid.
Form	Liquid.
Colour	Opaque.
Odour	Mild.
Odour threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	79,44 °C (175 °F)
Flash point	-5,0 °C (23,0 °F) Tag closed cup
Evaporation rate	> 1
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	2 %
Flammability limit - upper (%)	11,5 %
Vapour pressure	Not available.
Vapour density	> 1
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

9.2. Other information

Specific gravity	> 1 @ 70°F
VOC	37 % w/w

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
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10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
10.5. Incompatible materials	Strong oxidising agents. Ammonia. Amines. Isocyanates. Caustics.
10.6. Hazardous decomposition products	Upon decomposition this product emits acrid dense smoke with carbon dioxide, carbon monoxide, water and other products of combustion.

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.
Skin contact	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Eye contact	Causes serious eye irritation.
Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

Symptoms May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

11.1. Information on toxicological effects

Acute toxicity Not known. Not expected to be acutely toxic.

Components	Species	Test results
3-iodo-2-propynyl-butylcarbamate (CAS 55406-53-6)		
<u>Acute</u>		
Oral		
LD50	Rat	1,1 g/kg
Diacetone alcohol (CAS 123-42-2)		
<u>Acute</u>		
Dermal		
LD50	Rat	> 1875 mg/kg, 24 Hours
Methyl benzimidazole-2-yl carbamate (CAS 10605-21-7)		
<u>Acute</u>		
Dermal		
LD50	Rat	2000 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation Causes serious eye irritation.

Respiratory sensitisation Not a respiratory sensitizer.

Skin sensitisation This product is not expected to cause skin sensitisation.

Germ cell mutagenicity May cause genetic defects.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

ACGIH Carcinogens

Kaolin (CAS 1332-58-7) Not classifiable as a human carcinogen. A4

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

Methyl benzimidazole-2-yl carbamate (CAS 10605-21-7)

IARC Monographs. Overall Evaluation of Carcinogenicity

Rutile(TiO₂) (CAS 1317-80-2) 2B Possibly carcinogenic to humans.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure May cause drowsiness and dizziness.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not an aspiration hazard.

Mixture versus substance information No information available.

Other information Symptoms may be delayed.

SECTION 12: Ecological information

12.1. Toxicity Harmful to aquatic life with long lasting effects. Based on available data, the classification criteria are not met for hazardous to the aquatic environment, acute hazard.

Components	Species	Test results
3-IODO-2-PROPYNYL-BUTYLCARBAMATE (CAS 55406-53-6)		
Aquatic		
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)
		0,05 - 0,089 mg/l, 96 hours
Diacetone alcohol (CAS 123-42-2)		
Aquatic		
Fish	LC50	Bluegill (Lepomis macrochirus)
		420 mg/l, 96 hours
METHYL BENZIMIDAZOLE-2-YI CARBAMATE (CAS 10605-21-7)		
Aquatic		
Fish	LC50	Channel catfish (Ictalurus punctatus)
		0,009 - 0,015 mg/l, 96 hours
Methyl ethyl ketone (CAS 78-93-3)		
Aquatic		
Crustacea	EC50	Water flea (Daphnia magna)
		4025 - 6440 mg/l, 48 hours
Fish	LC50	Sheepshead minnow (Cyprinodon variegatus)
		> 400 mg/l, 96 hours

12.2. Persistence and degradability

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Diacetone alcohol	-0,098
METHYL BENZIMIDAZOLE-2-YI CARBAMATE	1,52
Methyl ethyl ketone	0,29

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB assessment Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation potential.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

EU waste code The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Special precautions Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number	UN1993
14.2. UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (Methyl ethyl ketone)
14.3. Transport hazard class(es)	
Class	3
Subsidiary risk	-

Label(s) 3
Hazard No. (ADR) 33
Tunnel restriction code D/E
14.4. Packing group II
14.5. Environmental hazards Yes
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

RID

14.1. UN number UN1993
14.2. UN proper shipping name FLAMMABLE LIQUID, N.O.S. (Methyl ethyl ketone)
14.3. Transport hazard class(es)
Class 3
Subsidiary risk -
Label(s) 3
14.4. Packing group II
14.5. Environmental hazards Yes
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

ADN

14.1. UN number UN1993
14.2. UN proper shipping name FLAMMABLE LIQUID, N.O.S. (Methyl ethyl ketone)
14.3. Transport hazard class(es)
Class 3
Subsidiary risk -
Label(s) 3
14.4. Packing group II
14.5. Environmental hazards Yes
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

14.1. UN number UN1993
14.2. UN proper shipping name Flammable liquid, n.o.s. (Methyl Ethyl Ketone)
14.3. Transport hazard class(es)
Class 3
Subsidiary risk -
14.4. Packing group II
14.5. Environmental hazards Yes
ERG Code 3H
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Other information
Passenger and cargo aircraft Allowed with restrictions.
Cargo aircraft only Allowed with restrictions.

IMDG

14.1. UN number UN1993
14.2. UN proper shipping name FLAMMABLE LIQUID, N.O.S. (Methyl Ethyl Ketone), MARINE POLLUTANT
14.3. Transport hazard class(es)
Class 3
Subsidiary risk -
14.4. Packing group II
14.5. Environmental hazards
Marine pollutant Yes
EmS F-E, S-E
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
3-iodo-2-propynyl Butyl Carbamate
2-benzimidazolecarbamic Acid Methyl Ester

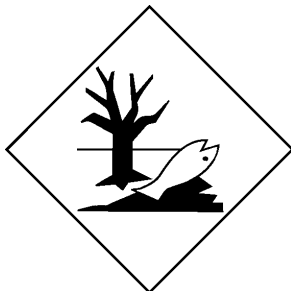
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not established.

ADN; ADR; IATA; IMDG; RID



Marine pollutant



SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

METHYL BENZIMIDAZOLE-2-YL CARBAMATE (CAS 10605-21-7)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

METHYL BENZIMIDAZOLE-2-YL CARBAMATE (CAS 10605-21-7)

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

3-iodo-2-propynyl-butylcarbamate (CAS 55406-53-6)

METHYL BENZIMIDAZOLE-2-YL CARBAMATE (CAS 10605-21-7)

Methyl ethyl ketone (CAS 78-93-3)

Other regulations	Pregnant women should not work with the product, if there is the least risk of exposure. The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended. Additional information is given in the Safety Data Sheet.
National regulations	Follow national regulation for work with chemical agents. Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended.

15.2. Chemical safety assessment No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations	Not available.
References	Not available.
Information on evaluation method leading to the classification of mixture	The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.
Full text of any statements or R-phrases and H-statements under Sections 2 to 15	<p>R11 Highly flammable. R22 Harmful if swallowed. R23 Toxic by inhalation. R36 Irritating to eyes. R41 Risk of serious damage to eyes. R43 May cause sensitisation by skin contact. R45 May cause cancer. R46 May cause heritable genetic damage. R48/23 Toxic: danger of serious damage to health by prolonged exposure through inhalation. R50 Very toxic to aquatic organisms. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R60 May impair fertility. R61 May cause harm to the unborn child. R66 Repeated exposure may cause skin dryness or cracking. R67 Vapours may cause drowsiness and dizziness. H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H302 Harmful if swallowed. H312 Harmful in contact with skin. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H340 May cause genetic defects. H372 Causes damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.</p>
Revision information	Product and Company Identification: Synonyms Physical & Chemical Properties: Multiple Properties
Training information	Follow training instructions when handling this material.
Disclaimer	ITW Pro Brands cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.