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1 Identification

- · Product identifier
- · Trade name: Residual Solvents Mixture 1 (CRM)
- · Article number: 38279
- Restrictions

This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(5)) or processed (as defined in TSCA section 3(13)) for consumer paint or coating removal.

• **Application of the substance / the mixture** This product is for research use - Not for human or veterinary diagnostic or therapeutic use.

· Details of the supplier of the safety data sheet

Manufacturer/Supplier: Cayman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA

· Information department: Product safety department

• Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970

2 Hazard(s) identification

· Classification of the subst	ance or mixture
GHS08 Health haz	ard
Germ Cell Mutagenicity 1B	H340 May cause genetic defects.
Carcinogenicity 1A	H350 May cause cancer.
Toxic to Reproduction 1B	H360 May damage fertility or the unborn child.
GHS07	
Acute Toxicity - Dermal 4	H312 Harmful in contact with skin.
Acute Toxicity - Inhalation 4	H332 Harmful if inhaled.
Flammable Liquids 4	H227 Combustible liquid.
Aquatic Acute 3	H402 Harmful to aquatic life.
Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.
	(Contd. on page 2)

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		(Contd. from page 1)
· Label elen	pents	(- 10)
GHS label		
	ct is classified and labeled according to the Globally Harmonized System (G	θHS).
^		
•		
GHS07	GHS08	
· Signal wo		
•		
	termining components of labeling: nylacetamide	
Dichlorome		
Benzene		
Methanol		
· Hazard sta		
H227	Combustible liquid.	
	2 Harmful in contact with skin or if inhaled.	
H340	May cause genetic defects.	
H350 H360	May cause cancer. May damage fertility or the unborn child.	
H412	Harmful to aquatic life with long lasting effects.	
	nary statements	
P201	Obtain special instructions before use.	
P202	Do not handle until all safety precautions have been read and understood	
P210	Keep away from flames and hot surfaces. – No smoking.	
P261	Avoid breathing dust/fume/gas/mist/vapors/spray	
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.	
	2 If on skin: Wash with plenty of water. 0 IF INHALED: Remove person to fresh air and keep comfortable for breath	ning
	3 IF exposed or concerned: Get medical advice/attention.	inig.
P312	Call a poison center/doctor if you feel unwell.	
P321	Specific treatment (see on this label).	
	4 Take off contaminated clothing and wash it before reuse.	
	8 In case of fire: Use CO2, powder or water spray to extinguish.	
	5 Store in a well-ventilated place. Keep cool.	
P405 P501	Store locked up.	anal/international
F301	Dispose of contents/container in accordance with local/regional/nati regulations.	
	tion system:	
	ngs (scale 0 - 4)	
2	Health = 1	
	Fire = 2 Reactivity = 0	
$\mathbf{\nabla}$		
· HMIS-ratir	ngs (scale 0 - 4)	
HEALTH	*1 Health = *1	
	2 Fire = 2	
REACTIVITY		
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- · Other hazards
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

• **Description:** Mixture of the substances listed below with nonhazardous additions.

Dangerous compone	ents:	
CAS: 127-19-5 RTECS: AB 7700000	N,N-dimethylacetamide	89.6%
CAS: 67-56-1 RTECS: PC1400000	Methanol	0.5%
CAS: 75-09-2 RTECS: PA8050000	Dichloromethane	0.5%
CAS: 108-88-3 RTECS: XS 5250000	toluene	0.5%
CAS: 110-54-3 RTECS: MN9275000	Hexane	0.5%
CAS: 142-82-5 RTECS: MI7700000	Heptane	0.5%
CAS: 67-66-3 RTECS: FS9100000	Chloroform	0.1%
CAS: 71-43-2 RTECS: CY1400000	Benzene	0.1%
CAS: 79-01-6	trichloroethylene	0.1%
CAS: 107-06-2 RTECS: KI 0525000	1,2-dichloroethane	0.1%
· Other ingredients		
CAS: 60-29-7 RTECS: KI 5775000	diethyl ether	0.5%
CAS: 64-17-5 RTECS: KQ6300000	ethanol	0.5%
CAS: 67-63-0 RTECS: NT8050000	Isopropyl alcohol	0.5%
CAS: 67-64-1 RTECS: AL3150000	Acetone	0.5%
CAS: 75-05-8 RTECS: AL7700000	Acetonitrile	0.5%
CAS: 75-83-2 RTECS: EJ 9300000	2,2-dimethylbutane	0.5%
CAS: 78-78-4 RTECS: EK 4430000	isopentane	0.5%
CAS: 79-29-8 RTECS: EJ 9350000	2,3-dimethylbutane	0.5%
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CAS: 95-47-6 RTECS: ZE 2450000	o-xylene	0.5%
CAS: 96-14-0 RTECS: SA 2995500	3-methylpentane	0.5%
CAS: 106-42-3 RTECS: ZE 2625000	p-xylene	0.5%
CAS: 107-83-5	hexane (containing < 5 % n-hexane (203-777-6))	0.5%
CAS: 108-38-3 RTECS: ZE 2275000	m-xylene	0.5%
CAS: 109-66-0 RTECS: RZ 9450000	pentane	0.5%
CAS: 141-78-6 RTECS: AH5425000	Ethyl Acetate	0.5%

4 First-aid measures

Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation:

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

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

- After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

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

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

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		ntd. from page 4)	
	n plenty of water.		
	ow to enter sewers/ surface or ground water. and material for containment and cleaning up:		
	ith liquid-binding material (sand, diatomite, acid binders, universal binders, sawdu	ust)	
	contaminated material as waste according to section 13.		
	dequate ventilation.		
	e to other sections		
	on 7 for information on safe handling. on 8 for information on personal protection equipment.		
	on 13 for disposal information.		
	e Action Criteria for Chemicals		
· PAC-1:			
127-19-5	N,N-dimethylacetamide	30 ppm	
60-29-7	diethyl ether	500 ppm	
64-17-5	ethanol	1,800 ppm	
67-56-1	Methanol	530 ppm	
67-63-0	Isopropyl alcohol	400 ppm	
67-64-1	Acetone	200 ppm	
75-05-8	Acetonitrile	13 ppm	
75-09-2	Dichloromethane	200 ppm	
75-83-2	2,2-dimethylbutane	1,000 ppm	
78-78-4	isopentane	3000* ppm	
	3-methylpentane	1,000 ppm	
107-83-5	hexane (containing < 5 % n-hexane (203-777-6))	1,000 ppm	
	m-xylene	130 ppm	
108-88-3	toluene	67 ppm	
109-66-0		3000* ppm	
110-54-3		260 ppm	
	Ethyl Acetate	1,200 ppm	
142-82-5	•	500 ppm	
	Chloroform	2 ppm	
	Benzene	52 ppm	
	trichloroethylene	130 ppm	
107-06-2	1,2-dichloroethane	50 ppm	
· PAC-2:			
127-19-5	N,N-dimethylacetamide 6	7 ppm	
		200* ppm	
64-17-5	ethanol 3	300* ppm	
67-56-1	Methanol 2	,100 ppm	
		2000* ppm	
		200* ppm	
		0 ppm	
75-09-2		60 ppm	
		1000** ppm	
		3000*** ppm	
96-14-0		1000** ppm	
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		(Contd. from page 5)
	hexane (containing < 5 % n-hexane (203-777-6))	11000** ppm
	m-xylene	920 ppm
108-88-3		560 ppm 33000*** ppm
	9-66-0 pentane	
110-54-3		2900* ppm
	Ethyl Acetate	1,700 ppm
	Heptane	830 ppm
	Chloroform	64 ppm
-	Benzene	800 ppm
	trichloroethylene	450 ppm
107-06-2	1,2-dichloroethane	200 ppm
· PAC-3:		
127-19-5	N,N-dimethylacetamide	400 ppm
60-29-7	diethyl ether	19000*** ppm
64-17-5	ethanol	15000* ppm
67-56-1	Methanol	7200* ppm
67-63-0	Isopropyl alcohol	12000** ppm
67-64-1	Acetone	5700* ppm
75-05-8	Acetonitrile	150 ppm
75-09-2	Dichloromethane	6,900 ppm
75-83-2	2,2-dimethylbutane	66000*** ppm
78-78-4	isopentane	200000*** ppm
	3-methylpentane	66000*** ppm
107-83-5	hexane (containing < 5 % n-hexane (203-777-6))	66000*** ppm
108-38-3	m-xylene	2500* ppm
108-88-3	toluene	3700* ppm
109-66-0	pentane	200000*** ppm
110-54-3		8600** ppm
141-78-6	Ethyl Acetate	10000** ppm
	Heptane	5000* ppm
67-66-3	Chloroform	3,200 ppm
71-43-2	Benzene	4000* ppm
79-01-6	trichloroethylene	3,800 ppm
107-06-2	1,2-dichloroethane	300 ppm

7 Handling and storage

- · Handling:
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.
- **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke. Keep respiratory protective device available.

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· Conditions for safe storage, including any incompatibilities

• Storage: Store in accordance with information listed on the product insert.

- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see section 7.

Com	ponents with limit values that require monitoring at the workplace:	
127-1	9-5 N,N-dimethylacetamide	
PEL	Long-term value: 35 mg/m³, 10 ppm Skin	
REL	Long-term value: 35 mg/m³, 10 ppm Skin	
TLV	Long-term value: 10 ppm Skin; BEI, A3	
67-56	-1 Methanol	
PEL	Long-term value: 260 mg/m³, 200 ppm	
REL	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin	
TLV	Short-term value: 250 ppm Long-term value: 200 ppm Skin; BEI	
75-09	-2 Dichloromethane	
PEL	Short-term value: 125 ppm Long-term value: 25 ppm see 29 CFR 1910.1052	
REL	See Pocket Guide App. A	
TLV	Long-term value: 50 ppm BEI, A3	
108-8	8-3 toluene	
PEL	Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift	
REL	Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm	
TLV	Long-term value: 20 ppm BEI, OTO, A4	
110-	i4-3 Hexane	
PEL	Long-term value: 1800 mg/m³, 500 ppm	
REL	Long-term value: 180 mg/m³, 50 ppm	
TLV	Long-term value: 50 ppm Skin; BEI	
		(Contd. on page

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142-9	32-5 Heptane	(Contd. from pag
	Long-term value: 2000 mg/m ³ , 500 ppm	
	Long-term value: 350 mg/m³, 85 ppm Ceiling limit value: 1800* mg/m³, 440* ppm *15-min	
TLV	Short-term value: 500 ppm Long-term value: 400 ppm	
	6-3 Chloroform	
PEL	Ceiling limit value: 240 mg/m³, 50 ppm	
	Short-term value: 9.78* mg/m³, 2* ppm *60-min; See Pocket Guide App. A	
	Long-term value: 10 ppm A3	
	3-2 Benzene	
PEL	Short-term value: 15* mg/m³, 5* ppm Long-term value: 3* mg/m³, 1* ppm *table Z-2 for exclusions in 29CFR1910.1028(d)	
REL	Short-term value: 1 ppm Long-term value: 0.1 ppm See Pocket Guide App. A	
TLV	Short-term value: (2.5) NIC-0.1 ppm Long-term value: (0.5) NIC-0.02 ppm Skin; BEI, A1	
79-0 ′	I-6 trichloroethylene	
PEL	Long-term value: 100 ppm Ceiling limit value: 200; 300* ppm *5-min peak in any 2 hrs	
REL	See Pocket Guide Apps. A and C	
TLV	Short-term value: 25 ppm Long-term value: 10 ppm BEI, A2	
107-0	06-2 1,2-dichloroethane	
PEL	Long-term value: 50 ppm Ceiling limit value: 100; 200* ppm *5-min peak in any 3 hrs	
REL	Short-term value: 8 mg/m³, 2 ppm Long-term value: 4 mg/m³, 1 ppm See Pocket Guide Apps. A and C	
TLV	Long-term value: 10 ppm A4	
Ingre	edients with biological limit values:	
127-'	19-5 N,N-dimethylacetamide	
	30 mg/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: N-Methylacetamide	
		(Contd. on pag

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67-56-1 Methanol	(Contd. from pa
BEI 15 mg/L Medium: urine	
Time: end of shift	
Parameter: Methanol (background, nonspecific)	
75-09-2 Dichloromethane	
BEI 0.3 mg/L	
Medium: urine	
Time: end of shift	
Parameter: Dichloromethane (semi-quantitative)	
108-88-3 toluene	
BEI 0.02 mg/L	
Medium: blood	
Time: prior to last shift of workweek	
Parameter: Toluene	
0.03 mg/L	
Medium: urine	
Time: end of shift	
Parameter: Toluene	
0.3 mg/g creatinine	
Medium: urine	
Time: end of shift	
Parameter: o-Cresol with hydrolysis (background)	
110-54-3 Hexane	
BEI 0.5 mg/L	
Medium: urine	
Time: end of shift	
Parameter: 2.5-Hexanedione without hydrolysis	
71-43-2 Benzene	
BEI 25 μg/g creatinine Medium: urine	
Time: end of shift Parameter	
Parameter: S-Phenylmercapturic acid (background	
500 μg/g creatinine	
Medium: urine	
Time: end of shift	
Parameter: t,t-Muconic acid (background)	
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70 4	(Contd. from page 9)
	01-6 trichloroethylene
BEI	15 mg/L Medium: urine
	Time: end of shift at end of workweek
	Parameter: Trichloroacetic acid (nonspecific)
	0.5 mg/L
	Medium: blood
	Time: end of shift at end of workweek Parameter: Trichloroethanol without hydrolysis (nonspecific)
	- Medium: blood
	Time: end of shift at end of workweek
	Parameter: Trichloroethylene (semi-quantitative)
	Medium: end-exhaled air
	Time: end of shift at end of workweek Parameter: Trichloroethylene (semi-quantitative)
<u> </u>	litional information: The lists that were valid during the creation were used as basis.
Was Stor Avo Bre In c exp	nediately remove all soiled and contaminated clothing. sh hands before breaks and at the end of work. re protective clothing separately. id contact with the eyes and skin. athing equipment: ase of brief exposure or low pollution use respiratory filter device. In case of intensive or longer osure use respiratory protective device that is independent of circulating air.
	tection of hands:
Chin.	
Due prep	Protective gloves glove material has to be impermeable and resistant to the product/ the substance/ the preparation. to missing tests no recommendation to the glove material can be given for the product/ the paration/ the chemical mixture.
Due prep Sele deg	Protective gloves glove material has to be impermeable and resistant to the product/ the substance/ the preparation. to missing tests no recommendation to the glove material can be given for the product/ the paration/ the chemical mixture. ection of the glove material on consideration of the penetration times, rates of diffusion and the radation
Due prep Sele deg Mat	tection of hands: Protective gloves glove material has to be impermeable and resistant to the product/ the substance/ the preparation. to missing tests no recommendation to the glove material can be given for the product/ the paration/ the chemical mixture. ection of the glove material on consideration of the penetration times, rates of diffusion and the

• Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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• Eye protection:

· Solvent content:

Organic solvents:



Tightly sealed goggles

9 Physical and chemical properties · Information on basic physical and chemical properties General Information · Appearance: Form: Liquid Color: According to product specification · Odor: Characteristic · Odor threshold: Not determined. · Formulation A solution in N,N-Dimethylacetamide · pH-value: Not determined. · Change in condition Melting point/Melting range: Undetermined. **Boiling point/Boiling range:** 165.5 °C (329.9 °F) · Flash point: 66 °C (150.8 °F) · Flammability (solid, gaseous): Not applicable. · Auto igniting: 390 °C (734 °F) · Decomposition temperature: Not determined. · Ignition temperature: Product is not selfigniting. · Danger of explosion: Not determined. · Explosion limits: Lower: 1.7 Vol % Upper: 11.5 Vol % · Vapor pressure at 20 °C (68 °F): 3.3 hPa (2.5 mm Hg) · Density: Not determined. · Relative density Not determined. · Vapor density Not determined. · Evaporation rate Not determined. · Solubility in / Miscibility with Water: Fully miscible. · Partition coefficient (n-octanol/water): Not determined. · Viscosity: Dynamic: Not determined. **Kinematic:** Not determined.

8.2 %

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VOC content:	7.70 % 77.0 g/l / 0.64 lb/gal	
Solids content:	0.0 %	
· 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:** No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

• Acute toxicity:

		nt for classification:		
ATE (Acute 1	Coxicity Estimate)			
Oral	LD50	20,020 mg/kg (rat)		
Dermal	LD50	1,156 mg/kg		
Inhalative	LC50/4 h	12 mg/l		
127-19-5 N,N-dimethylacetamide				
Oral	LD50	4,930 mg/kg (rat)		
Dermal	LD50	2,240 mg/kg (rabbit)		
67-56-1 Methanol				
Oral	LD50	100.1 mg/kg (rat) (Expert judgment) Remarks: Classified according to Regulation (EU) 1272/200 Annex VI (Table 3.1/3.2) Symptoms: Nausea, Vomiting		
Dermal	LD50	300.1 mg/kg (rabbit) (Expert judgment) Remarks: Classified according to Regulation (EU) 1272/200 Annex VI (Table 3.1/3.2)		
Inhalative	LC50/4 h	 3.1 mg/l (rat) (Expert judgment) Remarks: Classified according to Regulation (EU) 1272/200 Annex VI (Table 3.1/3.2) Symptoms: Irritation symptoms in the respiratory tract. 		
75-09-2 Dichloromethane				
Oral	LDLO	357 mg/kg (hmn)		
	LD50	1,600 mg/kg (rat)		

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	TDLO	(Contd. from page 1,429 μL/kg (man)
Inhalative	LC50/4 h	88 mg/l (rat)
	Intraperitoneal LD50	,
	Subcutaneous LD50	
108-88-3 toluen		
Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	12,124 mg/kg (rabbit)
Inhalative	LC50/4 h	5,320 mg/l (mouse)
110-54-3 Hexan	e	
Oral	LD50	15,840 mg/kg (rat)
Inhalative	LC50/4 h	48,000 mg/m³ (rat)
	TCLO	5,400 mg/m³/10m (hmn)
Irritation of eyes	Irritation	10 mg (rabbit) mild
	Interperitoneal LDLO	9,100 mg/kg (rat)
	Data	10 mg (rabbit) mild
142-82-5 Heptar	าย	1
Inhalative	LC50/4 h	48,000 mg/m³ (rat)
	TCLO	1,000 mg/m³/6m (hmn)
	LC50	103 g/m³/4h (rat)
67-66-3 Chlorof	orm	
Oral	LDLO	2,514 mg/kg (man)
	LD50	300 mg/kg (rat)
Dermal	LD50	>20 g/kg (rabbit)
	LD50	75 mg/kg (rat)
Inhalative	LC50	47,702 mg/m³/4h (rat)
	TCLO	5,000 mg/m³/7m (hmn)
Irritation of skin	Irritation	10 mg/24h (rabbit) mild
Irritation of eyes	Irritation	20 mg/24h (rabbit) moderate
	Intraperitoneal LD50	623 mg/kg (mouse)
71-43-2 Benzen	e	•
Oral	LDLO	50 mg/kg (man)
	LD50	930 mg/kg (rat)
Dermal	LD50	48 mg/kg (mouse)
Inhalative	LCLO	2 pph/5M (hmn)
	LC50/4 h	9,980 mg/l (mouse)
	Intraperitoneal LD50	1,100 μg/kg (rat)
	Intraperitoneal LD50	340 mg/kg (mouse)
	Subcutaneous LDLO	
79-01-6 trichlor	oethylene	
Oral	LD50	2,402 mg/kg (mouse)
Dermal	LD50	8,450 mg/kg (mouse)
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	1,2-dichloroethane		
Oral	LD50	670 mg/kg (rat)	
Dermal	LD50	2,800 mg/kg (rat)	
	rritant effect:		
	in: No irritant effect. e: No irritating effect		
	tion: No sensitizing e		
Additiona	al toxicological info	rmation:	
		ing dangers according to internally approved	calculation methods fo
preparation Harmful	ons:		
	uct can cause inherita	ble damage.	
	enic categories		
-	•	or Research on Cancer)	
	N,N-dimethylacetam		2B
64-17-5			1
	Isopropyl alcohol		3
	Dichloromethane		2A
	o-xylene		3
106-42-3	-		3
	m-xylene		3
108-88-3	toluene		3
67-66-3	Chloroform		2B
71-43-2	Benzene		1
79-01-6	trichloroethylene		1
107-06-2	1,2-dichloroethane		2B
NTP (Nat	ional Toxicology Pr	ogram)	
	Dichloromethane		R
67-66-3	Chloroform		R
71-43-2	Benzene		K
79-01-6	trichloroethylene		K
107-06-2	1,2-dichloroethane		R
OSHA-Ca	(Occupational Safe	ety & Health Administration)	
75-09-2	Dichloromethane		
71-43-2 E	Benzene		

12 Ecological information

· Toxicity

- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish

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- · Additional ecological information:
- · General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground. Harmful to aquatic organisms

Results of PBT and vPvB assessment

- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

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.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number		
DOT	NA1993	
IMDG, IATA	not regulated	
UN proper shipping name		
DOT	COMBUSTIBLE LIQUID, N.O.S	
IMDG, IATA	not regulated	
Transport hazard class(es)		
DOT		
COMBUSTIBLE 3		
Class	3 Combustible liquids	
Label ADN/R Class:	3 not regulated	
	not regulated	
Packing group DOT	111	
IMDG, IATA	not regulated	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Anne MARPOL73/78 and the IBC Code		
MAPPOI 73/78 and the IRC Code	Not applicable.	

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Trade name: Residual Solvents Mixture 1 (CRM)

	(Contd. from page 15)
· Transport/Additional information:	
• DOT • Quantity limitations	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
· IATA	
· Remarks:	When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.
· UN "Model Regulation":	not regulated

15 Regulatory information

 $^{\rm \cdot}$ Safety, health and environmental regulations/legislation specific for the substance or mixture $^{\rm \cdot}$ Sara

	Chloroform
Section 3	313 (Specific toxic chemical listings):
67-56-1	Methanol
67-63-0	Isopropyl alcohol
75-05-8	Acetonitrile
75-09-2	Dichloromethane
95-47-6	o-xylene
	p-xylene
108-38-3	m-xylene
108-88-3	toluene
110-54-3	Hexane
67-66-3	Chloroform
71-43-2	Benzene
	trichloroethylene
107 06 0	1.2-dichloroethane
TSCA (To This cher or proces	oxic Substances Control Act): nical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(sed (as defined in TSCA section 3(13)) for consumer paint or coating removal.
TSCA (To This cher or proces All compo	oxic Substances Control Act): nical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(
TSCA (To This cher or proces All compo Hazardou	oxic Substances Control Act): nical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(sed (as defined in TSCA section 3(13)) for consumer paint or coating removal. onents have the value ACTIVE.
TSCA (To This cher or proces All compo Hazardou 67-56-1	oxic Substances Control Act): nical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(sed (as defined in TSCA section 3(13)) for consumer paint or coating removal. onents have the value ACTIVE. us Air Pollutants
TSCA (To This cher or proces All compo Hazardou 67-56-1 75-05-8	oxic Substances Control Act): nical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(sed (as defined in TSCA section 3(13)) for consumer paint or coating removal. onents have the value ACTIVE. us Air Pollutants Methanol
TSCA (To This cher or proces All compo Hazardou 67-56-1 75-05-8 75-09-2	Discrete Control Act): nical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(4) sed (as defined in TSCA section 3(13)) for consumer paint or coating removal. onents have the value ACTIVE. us Air Pollutants Methanol Acetonitrile
TSCA (To This cher or proces All compo Hazardou 67-56-1 75-05-8 75-09-2 95-47-6 106-42-3	Discrete Control Act): nical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(! sed (as defined in TSCA section 3(13)) for consumer paint or coating removal. onents have the value ACTIVE. us Air Pollutants Methanol Acetonitrile Dichloromethane o-xylene

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Trade name: Residual Solvents Mixture 1 (CRM)

	(Contd. from page 16)
108-88-3	
110-54-3	Hexane
67-66-3	Chloroform
71-43-2	Benzene
	trichloroethylene
107-06-2	1,2-dichloroethane
· Propositi	ion 65
· Chemica	Is known to cause cancer:
127-19-5	N,N-dimethylacetamide
75-09-2	Dichloromethane
67-66-3	Chloroform
71-43-2	Benzene
	trichloroethylene
107-06-2	1,2-dichloroethane
· Chemica	Is known to cause reproductive toxicity for females:
None of the	he ingredients is listed.
· Chemica	Is known to cause reproductive toxicity for males:
127-19-5	N,N-dimethylacetamide
110-54-3	Hexane
71-43-2	Benzene
79-01-6	trichloroethylene
	Is known to cause developmental toxicity:
	N,N-dimethylacetamide
64-17-5	ethanol
67-56-1	Methanol
108-88-3	
	Chloroform
	Benzene
79-01-6	trichloroethylene
Carainan	innia antonomian

· Carcinogenic categories

000 0
CBD, D
L
1
1
1
D
B2, L, NL
A, K/L
CaH
(Contd. on page 18

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		from page 17)			
107-06-2	1,2-dichloroethane	B2			
· TLV (Thr	eshold Limit Value)				
127-19-5	N,N-dimethylacetamide	A4			
64-17-5	ethanol	A3			
67-63-0	Isopropyl alcohol	A4			
67-64-1	Acetone	A4			
75-05-8	Acetonitrile	A4			
75-09-2	Dichloromethane	A3			
	o-xylene	A4			
106-42-3	p-xylene	A4			
	m-xylene	A4			
108-88-3		A4			
67-66-3	Chloroform	A3			
71-43-2	Benzene	A1			
79-01-6	trichloroethylene	A2			
107-06-2	1,2-dichloroethane	A4			
· NIOSH-C	NIOSH-Ca (National Institute for Occupational Safety and Health)				
75-09-2	Dichloromethane				
67-66-3	Chloroform				
	Benzene				
79-01-6	trichloroethylene				
107-06-2	1,2-dichloroethane				

National regulations:

· Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

- · Department issuing SDS: Environment protection department.
- · Contact: -
- Date of preparation / last revision 04/27/2023
- Abbreviations and acronyms:
- IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation
- IATA: International Air Transport Association
- 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) NFPA: National Fire Protection Association (USA)

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(Co HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent D50: 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 TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flammable Liquids 4: Flammable liquids – Category 4 Acute Toxicity - Dermal 4: Acute toxicity – Category 4 Germ Cell Mutagenicity 1B: Germ cell mutagenicity – Category 1B Carcinogenicity 1A: Carcinogenicity – Category 1B Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3	ontd. from page 18)
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