



中国认可
国际互认
检测
TESTING
CNAS L4136



TEST REPORT

Report No...... : WTH25H04095974R29C
Applicant..... : PLENTY MORE INC LIMITED
Address..... : Workshop 5, 7/F., Core45,43-45 Tsun Yip Street, Kwun Tong,
Kowloon, HONG KONG
Sample Name..... : 1st generation Helmet Corps Series
(Doll+Building Block Car Boy)
ITEM#..... : PM06256
DESC..... : Emerald with Block Helper
EAN..... : 4897145492564
Labeled Age Grading..... : FOR AGE 3+
Requested Age Grading..... : 3+
Age Group Applied in Testing..... : Over 3 years
Test Requested..... : Refer to next page (s)
Test Conclusion..... : Refer to next page (s)
Date of Receipt sample..... : 2025-4-16
Testing period..... : 2025-4-16 ~ 2025-4-24
Date of Issue..... : 2025-4-28
Test Result..... : Refer to next page (s)

Prepared By:

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Signed for and on behalf of
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Michael Huang

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Report No.: WTH25H04095974R29C

Test Requested	Test Conclusion
1. Determine the following item(s) in the sample with reference to Consumer Product Safety Commission of Title 16, Code of Federal Regulations, Chapter II:	
- Lead (Pb) in paint and similar surface-coatings	PASS
2. Determine the sample with reference to Consumer Product Safety Improvement Act (CPSIA) Section 103, Tracking Labels for Children's Products.	PASS
3. Determine the sample with reference to Consumer Product Safety Improvement Act (CPSIA) of 2008 H.R.4040 & Amendment H.R.2715 & 16 CFR Part 1307:	
- Lead (Pb) in surface-coatings and similar materials of children's products	PASS
- Lead (Pb) in substrate materials of children's products	PASS
- Phthalates in children's toys and child care articles	PASS
4. Determine the following item(s) in the sample with reference to ASTM F963-23 Standard Consumer Safety Specification on Toy Safety:	
- Physical and Mechanical Tests	PASS
- Flammability Tests	PASS
- Heavy Elements Tests	PASS
- Phthalates Tests	PASS
5. Determine the following item(s) in the sample with reference to Toxics in Packaging Clearinghouse Model Legislation (TPCH) 2021 Update:	
- Lead, Cadmium, Mercury and Hexavalent Chromium content	PASS
- Phthalates content	PASS
- Perfluoroalkyl and polyfluoroalkyl substances (PFAS) content	PASS

Report No.: WTH25H04095974R29C

Test Result(s):

Consumer Product Safety Commission of Title 16, Code of Federal Regulations, Chapter II

Lead(Pb) content

AS SPECIFIED IN TITLE 16 PART 1303 CODE OF FEDERAL REGULATIONS U.S.A.

Test Method/Equipment: CPSC-CH-E1003-09.1; ICP-OES/AAS

Test Item	Unit	MDL	Content			Limit
			5-1	5-2	5-3	
Lead(Pb)	mg/kg	2	ND	ND	ND	90

Note:

mg/kg (milligram per kilogram) = ppm (parts per million)

MDL=Method Detection Limit

ND=Not Detected

Tracking Labels for Children's Products, CPSIA Section 103

Test Sample	Requirement	Result
1st generation Helmet Corps Series (Doll+Building Block Car Boy)	Tracking Labels for Children's Products, CPSIA Section 103	PASS

US Consumer Product Safety Improvement Act (CPSIA) of 2008 H.R.4040 & Amendment H.R.2715 & 16 CFR Part 1307

Total Lead(Pb) content

Lead(Pb) in surface-coatings and similar materials of children's products

Test Method/Equipment: CPSC-CH-E1003-09.1; ICP-OES/AAS

Test Item(s)	Unit	MDL	Result(s)			Limit
			5-1	5-2	5-3	
Lead(Pb)	mg/kg	2	ND	ND	ND	90

Lead(Pb) in substrate (non-metal) materials of children's products

Test Method/Equipment: CPSC-CH-E1002-08.3; ICP-OES/AAS

Test Item(s)	Unit	MDL	Result(s)			Limit
			5-4	5-5	5-6	
Lead(Pb)	mg/kg	2	ND	ND	ND	100

Test Item(s)	Unit	MDL	Result(s)				Limit
			11-1	11-2	11-3	11-4	
Lead(Pb)	mg/kg	2	ND	ND	ND	ND	100

Report No.: WTH25H04095974R29C

Test Item(s)	Unit	MDL	Result(s)			Limit
			11-5	11-6	11-7	
Lead(Pb)	mg/kg	2	ND	ND	ND	100

Note:

mg/kg (milligram per kilogram) = ppm (parts per million)

MDL=Method Detection Limit

ND=Not Detected

Phthalates in children's toys and child care articles

Test Method/Equipment: CPSC-CH-C1001-09.4; GC-MS

Test Item(s)	Unit	MDL	Result(s)						Limit
			5-1	5-2	5-3	5-4	5-5	5-6	
Dibutyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	ND	ND	1000
Butylbenzyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	ND	ND	1000
Di-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	ND	ND	1000
Di-isononyl phthalate (DINP)	mg/kg	100	ND	ND	ND	ND	ND	ND	1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	ND	ND	ND	ND	ND	ND	1000
Di-cyclohexyl phthalate (DCHP)	mg/kg	30	ND	ND	ND	ND	ND	ND	1000
Di-n-pentyl phthalate (DPENP/DPP)	mg/kg	30	ND	ND	ND	ND	ND	ND	1000
Di-n-hexyl phthalate(DHEXP/DNHP)	mg/kg	30	ND	ND	ND	ND	ND	ND	1000

Test Item(s)	Unit	MDL	Result(s)				Limit
			11-1	11-2	11-3	11-4	
Dibutyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	1000
Butylbenzyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	1000
Di-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	1000
Di-isononyl phthalate (DINP)	mg/kg	100	ND	ND	ND	ND	1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	ND	ND	ND	ND	1000
Di-cyclohexyl phthalate (DCHP)	mg/kg	30	ND	ND	ND	ND	1000
Di-n-pentyl phthalate (DPENP/DPP)	mg/kg	30	ND	ND	ND	ND	1000
Di-n-hexyl phthalate(DHEXP/DNHP)	mg/kg	30	ND	ND	ND	ND	1000

Test Item(s)	Unit	MDL	Result(s)			Limit
			11-5	11-6	11-7	
Dibutyl phthalate (DBP)	mg/kg	30	ND	ND	ND	1000
Butylbenzyl phthalate (BBP)	mg/kg	30	ND	ND	ND	1000
Di-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	ND	ND	ND	1000
Di-isononyl phthalate (DINP)	mg/kg	100	ND	ND	ND	1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	ND	ND	ND	1000
Di-cyclohexyl phthalate (DCHP)	mg/kg	30	ND	ND	ND	1000
Di-n-pentyl phthalate (DPENP/DPP)	mg/kg	30	ND	ND	ND	1000
Di-n-hexyl phthalate(DHEXP/DNHP)	mg/kg	30	ND	ND	ND	1000

Note:

mg/kg (milligram per kilogram) = ppm (parts per million)

MDL=Method Detection Limit

ND=Not Detected

ASTM F963-23 Standard Consumer Safety Specification on Toy Safety

Physical and Mechanical Tests

CLAUSE	DESCRIPTION	RESULT
4	Safety Requirements	
4.1	Material Quality	Pass
4.2	Flammability	Pass (See Result Page)
4.3	Toxicology	
4.3.1	Hazardous Substances	N/A
4.3.2	Manufacturing and Packaging of Food	N/A
4.3.3	Indirect Food Additives	N/A
4.3.4	Cosmetics	N/A
4.3.5	Heavy Elements	
4.3.5.1	Paint and Similar Surface-Coating Materials	Pass (See Result Page)
4.3.5.2	Toy Substrate Materials	Pass (See Result Page)
4.3.6	Cosmetics, Liquids, Pastes, Putties, Gels, and Powders	N/A
4.3.7	Stuffing Materials	N/A
4.3.8	Phthalates	Pass (See Result Page)
4.4	Electrical/Thermal Energy	N/A

CLAUSE	DESCRIPTION	RESULT
4.5	Sound-Producing Toys	N/A
4.6	Small Objects	
4.6.1	Toys that are intended for children under 36 months of age	N/A
4.6.2	Mouth-Actuated Toys	N/A
4.6.3	Toys and games that are intended for use by children who are at least three years old but less than six years of age	Pass
4.7	Accessible Edges	Pass
4.8	Projections	Pass
4.9	Accessible Points	Pass
4.10	Wires or Rods	N/A
4.11	Nails and Fasteners	Pass
4.12	Plastic Film	Pass
4.13	Folding Mechanisms and Hinges Remark: not applicable because of the weight of part link with hinge is less than 0.5lb.	N/A
4.14	Cords ,straps, and Elastics	N/A
4.15	Stability and Over-Load Requirements	N/A
4.16	Confined Spaces	N/A
4.17	Wheels, Tires and Axles	Pass
4.18	Holes, Clearance, and Accessibility of Mechanisms	Pass
4.19	Simulated Protective Devices	N/A
4.20	Pacifiers	N/A
4.21	Projectile Toys	N/A
4.22	Teethers and Teething Toys	N/A
4.23	Rattles	N/A
4.24	Squeeze Toys	N/A
4.25	Battery-Operated Toys	N/A
4.26	Toys Intended to be Attached to a Crib or Playpen	N/A
4.27	Stuffed and Beanbag-Type Toys	N/A
4.28	Stroller and Carriage Toys	N/A
4.29	Art Materials	N/A
4.30	Toy Gun Marking	N/A
4.31	Balloons	N/A
4.32	Certain Toys with Nearly Spherical Ends	N/A
4.33	Marbles	N/A
4.34	Balls	N/A
4.35	Pompoms	N/A

CLAUSE	DESCRIPTION	RESULT
4.36	Hemispheric-Shaped Objects	N/A
4.37	Yo Yo elastic tether toys	N/A
4.38	Magnets	N/A
4.39	Jaw Entrapment in Handles and Steering Wheels	N/A
4.40	Expanding Materials	N/A
4.41	Toy Chests	N/A
5	Labeling Requirements	
5.1	Federal Government Requirements	Pass
5.2	Age Grading Labeling	Pass
5.3	Safety Labeling Requirements	N/A
5.4	Aquatic Toys	N/A
5.5	Crib and Playpen Toys	N/A
5.6	Mobiles	N/A
5.7	Stroller and Carriage Toys	N/A
5.8	Toys Intended to be Assembled by an Adult	N/A
5.9	Simulated Protective Devices	N/A
5.10	Toys with Functional Sharp Edges or Sharp Points	N/A
5.11	Small Objects, Small Balls, Marbles, and Balloons	Pass
5.12	Art Materials	N/A
5.13	Electric Toys	N/A
5.14	Battery-Operated Toys	N/A
5.15	Promotional Materials	Pass
5.16	Magnets	N/A
6	Instructional Literature	
6.1	Definition and Description	Pass
6.2	Crib and Playpen Toys	N/A
6.3	Mobiles	N/A
6.4	Toys Intended to be Assembled by an Adult	N/A
6.5	Battery-Operated Toys	N/A
6.6	Battery Powered Ride-on Toys	N/A
6.7	Toys in Contact with Food	N/A
6.8	Toy Chests	N/A
6.9	Toys which require a manufacturer-supplied specialty or custom tool to access the battery(ies)	N/A
7	Producer's Markings	
7.1	Producer's Markings	Pass

CLAUSE	DESCRIPTION	RESULT
7.2	Battery-Powered Ride-on Toys	N/A
7.3	Toy Chests	N/A
8.5	Normal Use Testing	Pass
8.5.1	Washable Test	N/A
8.7	Impact Test	Pass
8.8	Torque Test	Pass
8.9	Tension Test	Pass
8.10	Compression Test	N/A
8.11	Test for Tire Removal and snap-in wheel and axle assembly removal	Pass
8.12	Flexure Test	N/A
8.14	Projectiles	N/A
8.16	Tension Test for Pompoms	N/A
8.17	Stalled Motor Test for Battery-operated Toys	N/A
8.18	Tests for Battery-Powered Ride-on Toys	N/A
8.19	Tests for Toys that Contain Secondary Cells or Batteries	N/A
8.20	Tests for Toys Which Produce Noise	N/A
8.21	Dynamic Strength Test for Wheeled Ride-on Toys	N/A

Remark: N/A=Not Applicable

Flammability Tests (Clause 4.2)

Flammability Test on Solid

Test Sample	Burning Rate (inch/sec)	Limit (inch/sec)
Plastic Body	DNI	0.1

Note: DNI = Did Not Ignite

Heavy Elements Tests (Clause 4.3.5)**Migration of Certain Elements**

Test Method/Equipment: ASTM F963-23; ICP-OES/AAS

Test Item(s)	Unit	MDL	Result(s)						Limit
			5-1	5-2	5-3	5-4	5-5	5-6	
Soluble Arsenic(As)	mg/kg	2.5	ND	ND	ND	ND	ND	ND	25
Soluble Barium(Ba)	mg/kg	5	ND	ND	ND	ND	ND	ND	1000
Soluble Cadmium(Cd)	mg/kg	5	ND	ND	ND	ND	ND	ND	75
Soluble Chromium(Cr)	mg/kg	5	ND	ND	ND	ND	ND	ND	60
Soluble Mercury(Hg)	mg/kg	5	ND	ND	ND	ND	ND	ND	60
Soluble Lead(Pb)	mg/kg	5	ND	ND	ND	ND	ND	ND	90
Soluble Antimony(Sb)	mg/kg	5	ND	ND	ND	ND	ND	ND	60
Soluble Selenium(Se)	mg/kg	5	ND	ND	ND	ND	ND	ND	500

Test Item(s)	Unit	MDL	Result(s)				Limit
			11-1	11-2	11-3	11-4	
Soluble Arsenic(As)	mg/kg	2.5	ND	ND	ND	ND	25
Soluble Barium(Ba)	mg/kg	5	ND	ND	ND	ND	1000
Soluble Cadmium(Cd)	mg/kg	5	ND	ND	ND	ND	75
Soluble Chromium(Cr)	mg/kg	5	ND	ND	ND	ND	60
Soluble Mercury(Hg)	mg/kg	5	ND	ND	ND	ND	60
Soluble Lead(Pb)	mg/kg	5	ND	ND	ND	ND	90
Soluble Antimony(Sb)	mg/kg	5	ND	ND	ND	ND	60
Soluble Selenium(Se)	mg/kg	5	ND	ND	ND	ND	500

Test Item(s)	Unit	MDL	Result(s)			Limit
			11-5	11-6	11-7	
Soluble Arsenic(As)	mg/kg	2.5	ND	ND	ND	25
Soluble Barium(Ba)	mg/kg	5	ND	ND	ND	1000
Soluble Cadmium(Cd)	mg/kg	5	ND	ND	ND	75
Soluble Chromium(Cr)	mg/kg	5	ND	ND	ND	60
Soluble Mercury(Hg)	mg/kg	5	ND	ND	ND	60
Soluble Lead(Pb)	mg/kg	5	ND	ND	ND	90
Soluble Antimony(Sb)	mg/kg	5	ND	ND	ND	60
Soluble Selenium(Se)	mg/kg	5	ND	ND	ND	500

Note:

mg/kg (milligram per kilogram) = ppm (parts per million)

Report No.: WTH25H04095974R29C

MDL=Method Detection Limit

ND=Not Detected

Soluble heavy metals' result(s) shown is(are) of the adjusted analytical result.

The mass of the test portion of soluble heavy metals between 10 mg and 100 mg: No.5-1=99.2mg

Total Lead(Pb) content

Test Method/Equipment: CPSC-CH-E1003-09.1; ICP-OES/AAS

Test Item(s)	Unit	MDL	Result(s)			Limit
			5-1	5-2	5-3	
Lead(Pb)	mg/kg	2	ND	ND	ND	90

Test Method/Equipment: CPSC-CH-E1002-08.3; ICP-OES/AAS

Test Item(s)	Unit	MDL	Result(s)			Limit
			5-4	5-5	5-6	
Lead(Pb)	mg/kg	2	ND	ND	ND	100

Test Item(s)	Unit	MDL	Result(s)				Limit
			11-1	11-2	11-3	11-4	
Lead(Pb)	mg/kg	2	ND	ND	ND	ND	100

Test Item(s)	Unit	MDL	Result(s)			Limit
			11-5	11-6	11-7	
Lead(Pb)	mg/kg	2	ND	ND	ND	100

Note:

mg/kg (milligram per kilogram) = ppm (parts per million)

MDL=Method Detection Limit

ND=Not Detected

Report No.: WTH25H04095974R29C

Phthalates Tests (Clause 4.3.8)

Test Method/Equipment: CPSC-CH-C1001-09.4; GC-MS

Test Item(s)	Unit	MDL	Result(s)						Limit
			5-1	5-2	5-3	5-4	5-5	5-6	
Dibutyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	ND	ND	1000
Butylbenzyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	ND	ND	1000
Di-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	ND	ND	1000
Di-isononyl phthalate (DINP)	mg/kg	100	ND	ND	ND	ND	ND	ND	1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	ND	ND	ND	ND	ND	ND	1000
Di-cyclohexyl phthalate (DCHP)	mg/kg	30	ND	ND	ND	ND	ND	ND	1000
Di-n-pentyl phthalate (DPENP/DPP)	mg/kg	30	ND	ND	ND	ND	ND	ND	1000
Di-n-hexyl phthalate(DHEXP/DNHP)	mg/kg	30	ND	ND	ND	ND	ND	ND	1000

Test Item(s)	Unit	MDL	Result(s)				Limit
			11-1	11-2	11-3	11-4	
Dibutyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	1000
Butylbenzyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	1000
Di-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	1000
Di-isononyl phthalate (DINP)	mg/kg	100	ND	ND	ND	ND	1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	ND	ND	ND	ND	1000
Di-cyclohexyl phthalate (DCHP)	mg/kg	30	ND	ND	ND	ND	1000
Di-n-pentyl phthalate (DPENP/DPP)	mg/kg	30	ND	ND	ND	ND	1000
Di-n-hexyl phthalate(DHEXP/DNHP)	mg/kg	30	ND	ND	ND	ND	1000

Test Item(s)	Unit	MDL	Result(s)			Limit
			11-5	11-6	11-7	
Dibutyl phthalate (DBP)	mg/kg	30	ND	ND	ND	1000
Butylbenzyl phthalate (BBP)	mg/kg	30	ND	ND	ND	1000
Di-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	ND	ND	ND	1000
Di-isononyl phthalate (DINP)	mg/kg	100	ND	ND	ND	1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	ND	ND	ND	1000
Di-cyclohexyl phthalate (DCHP)	mg/kg	30	ND	ND	ND	1000
Di-n-pentyl phthalate (DPENP/DPP)	mg/kg	30	ND	ND	ND	1000
Di-n-hexyl phthalate(DHEXP/DNHP)	mg/kg	30	ND	ND	ND	1000

Note:

mg/kg (milligram per kilogram) = ppm (parts per million)

MDL=Method Detection Limit

Report No.: WTH25H04095974R29C

ND=Not Detected

Lead, Cadmium, Mercury and Hexavalent Chromium content

Test Method/Equipment: IEC 62321-5:2013, IEC 62321-4:2013+AMD1:2017, IEC 62321-7-2:2017;

ICP-OES/AAS, UV-VIS

Test Item(s)	Unit	MDL	Result(s)				Limit
			5-7	5-8	11-8	11-9	
Lead (Pb)	mg/kg	2	ND	ND	ND	ND	—
Cadmium (Cd)	mg/kg	2	ND	ND	ND	ND	—
Mercury (Hg)	mg/kg	2	ND	ND	ND	ND	—
Hexavalent Chromium(Cr(VI))	mg/kg	8	ND	ND	ND	ND	—
Total [Pb + Cd + Hg +Cr (VI)]	mg/kg	—	ND	ND	ND	ND	100

Phthalates content ⁿ

Test Method/Equipment: CPSC-CH-C1001-09.4; GC-MS

No.	Test Item(s)	CAS No.	Unit	MDL	Result(s)				Limit
					5-7	5-8	11-8	11-9	
1	Dibutylphthalate (DBP)	84-74-2	mg/kg	30	ND	ND	ND	ND	—
2	Butylbenzylphthalate (BBP)	85-68-7	mg/kg	30	ND	ND	ND	ND	—
3	Di-(2-ethylhexyl)-phthalate (DEHP)	117-81-7	mg/kg	30	ND	ND	ND	ND	—
4	Di-n-octyl phthalate (DNOP)	117-84-0	mg/kg	30	ND	ND	ND	ND	—
5	Di-iso-nonyl phthalate (DINP)	68515-48-0 28553-12-0	mg/kg	100	ND	ND	ND	ND	—
6	Di-iso-decylphthalate (DIDP)	26761-40-0 68515-49-1	mg/kg	100	ND	ND	ND	ND	—
7	Di-n-hexyl phthalate (DNHP)	84-75-3	mg/kg	30	ND	ND	ND	ND	—
8	Di-isobutyl phthalate (DIBP)	84-69-5	mg/kg	30	ND	ND	ND	ND	—
9	Diethyl phthalate (DEP)	84-66-2	mg/kg	30	ND	ND	ND	ND	—
10	Di-propyl phthalate (DPP/DPrP)	131-16-8	mg/kg	30	ND	ND	ND	ND	—
11	Di-isooctyl phthalate (DIOP)	27554-26-3	mg/kg	100	ND	ND	ND	ND	—
12	Di-n-pentyl phthalate(DPP/DnPP/DPENP)	131-18-0	mg/kg	30	ND	ND	ND	ND	—
13	Di-cyclohexyl phthalate (DCP/DCHP)	84-61-7	mg/kg	30	ND	ND	ND	ND	—
14	Dimethyl phthalate (DMP)	131-11-3	mg/kg	30	ND	ND	ND	ND	—
15	Di-nonyl phthalate (DNP)	84-76-4	mg/kg	30	ND	ND	ND	ND	—
16	Diheptyl phthalate (DIHeP)	3648-21-3	mg/kg	30	ND	ND	ND	ND	—
17	Bis(2-methoxyethyl)phthalate (BMEP/DMEP)	117-82-8	mg/kg	30	ND	ND	ND	ND	—

No.	Test Item(s)	CAS No.	Unit	MDL	Result(s)				Limit
					5-7	5-8	11-8	11-9	
18	1,2-benzenedicarboxylic acid, di-C6-8-branched alkylester, C7 rich (DIHP)	71888-89-6	mg/kg	100	ND	ND	ND	ND	—
19	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNU)	68515-42-4	mg/kg	100	ND	ND	ND	ND	—
20	Di-isopentyl phthalate (DIPP)	605-50-5	mg/kg	100	ND	ND	ND	ND	—
21	N-pentyl-isopentyl phthalate (NPIPP) Isopentyl Pentyl Phthalate (IPnPP)	776297-69-9	mg/kg	100	ND	ND	ND	ND	—
22	Diphenyl phthalate (DPPH)	84-62-8	mg/kg	30	ND	ND	ND	ND	—
23	Dibenzyl phthalate (DBZP)	523-31-9	mg/kg	30	ND	ND	ND	ND	—
24	Bis(2-propylheptyl) phthalate (DPHP)	53306-54-0	mg/kg	100	ND	ND	ND	ND	—
25	1,2-benzenedicarboxylic acid, dihexyl ester branched and linear (DHXP/DIHP)	68515-50-4	mg/kg	100	ND	ND	ND	ND	—
26	Diisohexyl phthalate (DIHP)	71850-09-4	mg/kg	100	ND	ND	ND	ND	—
27	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 68648-93-1	mg/kg	100	ND	ND	ND	ND	—
28	1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear (NPIPP)	84777-06-0	mg/kg	100	ND	ND	ND	ND	—
29	Bis(4-methyl-2-pentyl)phthalate (BMPP)	146-50-9	mg/kg	30	ND	ND	ND	ND	—
30	Bis(2-ethoxyethyl) phthalate (BEEP/DEEP)	605-54-9	mg/kg	30	ND	ND	ND	ND	—
31	Bis(2-n-butoxyethyl)phthalate (BBEP)	117-83-9	mg/kg	30	ND	ND	ND	ND	—
32	Butyl octyl phthalate (BOP)	84-78-6	mg/kg	30	ND	ND	ND	ND	—
33	Hexyl 2-ethylhexyl phthalate (HEHP)	75673-16-4	mg/kg	100	ND	ND	ND	ND	—
34	Diallyl phthalate (DAP)	131-17-9	mg/kg	30	ND	ND	ND	ND	—
35	Monobutyl phthalate (MBP)	131-70-4	mg/kg	30	ND	ND	ND	ND	—
36	N-octyl-n-decyl phthalate (ODP/nDnOP)	119-07-3	mg/kg	30	ND	ND	ND	ND	—
37	Diundecyl phthalate (DUDP)	3648-20-2	mg/kg	30	ND	ND	ND	ND	—
38	Di-n-Decyl phthalate (DnDP)	84-77-5	mg/kg	30	ND	ND	ND	ND	—

Report No.: WTH25H04095974R29C

No.	Test Item(s)	CAS No.	Unit	MDL	Result(s)				Limit
					5-7	5-8	11-8	11-9	
39	Diundecyl phthalate, branched and linear (DIUP)	85507-79-5	mg/kg	100	ND	ND	ND	ND	—
40	Butyl cyclohexyl phthalate (BCHP)	84-64-0	mg/kg	30	ND	ND	ND	ND	—
41	Ditridecyl phthalate (DTDP)	119-06-2	mg/kg	30	ND	ND	ND	ND	—
42	Butyl-n-decyl phthalate (BDP)	89-19-0	mg/kg	30	ND	ND	ND	ND	—
43	1,2-Benzenedicarboxylic acid, di-C11-14-branched alkyl esters, C13-rich (DITDP)	68515-47-9	mg/kg	100	ND	ND	ND	ND	—
/	The Sum of above Phthalates	—	mg/kg	—	ND	ND	ND	ND	100

Perfluoroalkyl and polyfluoroalkyl substances (PFAS) content ⁿ

Test Method/Equipment: EN 17681-1:2022 & EN 17681-2:2022 & HCT/SZ-SOP-YJ-PI035; LC-MS/MS, GC-MS

Test Item(s)	Unit	Result(s)				Limit
		5-7	5-8	11-8	11-9	
PFAS (Details see list)	mg/kg	ND	ND	ND	ND	0.025
The sum of PFAS in the list	mg/kg	ND	ND	ND	ND	0.25

Note:

mg/kg (milligram per kilogram) = ppm (parts per million)

ND=Not Detected

MDL=Method Detection Limit

Results shown as ND are ignored in the sum calculation.

The detected Chromium (Cr) content is "ND", therefore, the Hexavalent Chromium (Cr (VI)) content is "ND", No need for validation test of the Hexavalent Chromium (Cr (VI)). If Chromium (Cr) content exceeds Hexavalent Chromium (Cr (VI)) method detection limit, Validation test of the Hexavalent Chromium (Cr (VI)) is required.

The Regulation defines Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) as a class of chemical. There is no official list of PFAS. Conclusion is made based on the tested Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) which is agree by the client.

The Regulation defines ortho-phthalates as a class of chemical. There is no official list of ortho-phthalates. Conclusion is made based on the tested Ortho-Phthalate substances which is agree by the client.

Sample Description:

No.	HCT Sample ID	Test Part Description		Note
5-1	WTH25H04095974C~75C.5	5-1	Green/yellow coating (helmet decoration)	•
5-2		5-2	Light blue/yellow coating (head decoration)	•
5-3		5-3	Green/yellow/light blue coating (body decoration)	•
5-4		5-4	White soft plastic (helmet)	Same

No.	HCT Sample ID	Test Part Description		Note
				WTH25H04095974C ~75C, 1-4
5-5		5-5	White plastic (head)	Same WTH25H04095974C ~75C, 1-5
5-6		5-6	Matt white plastic (body)	Same WTH25H04095974C ~75C, 1-6
5-7		5-7	Black-printed transparent plastic film (bag)	Same WTH25H04095974C ~75C, 1-7
5-8		5-8	Transparent adhesive tape (sealing)	Same WTH25H04095974C ~75C, 1-8
11-1	WTH25H04095974C~75C.11	11-1	Green plastic (car body & chassis)	•
11-2		11-2	Blackish green plastic (car body)	•
11-3		11-3	Transparent brown plastic (car body)	Same WTH25H04095974C ~75C, 7-3
11-4		11-4	Gray plastic (car body)	Same WTH25H04095974C ~75C, 7-5
11-5		11-5	Black plastic (car body & chassis)	Same WTH25H04095974C ~75C, 7-6
11-6		11-6	Black soft plastic (tire)	Same WTH25H04095974C ~75C, 7-9
11-7		11-7	Yellow plastic (car body & wheels lining)	Same WTH25H04095974C ~75C, 10-1
11-8		11-8	Black-printed transparent plastic film (bag)	Same WTH25H04095974C ~75C, 1-7
11-9		11-9	Transparent adhesive tape (sealing)	Same WTH25H04095974C ~75C, 1-8

Note:

●=Actual tested sample

"Same" = It means that the sample and the actual tested sample are of the same material and have not been tested. According to the client's declarations, see the above table for the list of samples (parts) of the same material.

Perfluoroalkyl and polyfluoroalkyl substances (PFAS) list:

No.	Substance Name	CAS No.	MDL
1	Perfluorooctanoic acid	335-67-1	0.01
2	Sodium perfluorooctanoate*	335-95-5	0.01
3	Potassium perfluorooctanoate*	2395-00-8	0.01
4	Silver perfluorooctanoate*	335-93-3	0.01
5	Perfluorooctanoyl fluoride*	335-66-0	0.01
6	Ammonium pentadecafluorooctanoate*	3825-26-1	0.01
7	Lithium perfluorooctanoate*	17125-58-5	0.01
8	Cobalt perfluorooctanoate (PFOA-Co)*	35965-01-6	0.01
9	Cesium perfluorooctanoate (PFOA-Cs)*	17125-60-9	0.01
10	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) (PFOA-Cr(3+))*	68141-02-6	0.01
11	Pentadecafluorooctanoic acid--piperazine (2/1)PFOA-NH(C ₄ H ₁₀ N)*	423-52-9	0.01
12	Perfluorooctanoic Anhydride*	33496-48-9	0.01
13	1H,1H,2H,2H-Perfluorodecanesulfonic acid	39108-34-4	0.025
14	1H,1H,2H,2H-Perfluorodecane sulfonate acid Sodium salt*	27619-96-1	0.025
15	1H,1H,2H,2H-Perfluorodecane sulfonate acid Potassium salt*	438237-73-1	0.025
16	1H,1H,2H,2H-Perfluorodecane sulfonate acid Ammonium salt*	149724-40-3	0.025
17	Methyl perfluorooctanoate	376-27-2	0.025
18	Ethyl perfluorooctanoate	3108-24-5	0.025
19	1H,1H,2H,2H-Perfluorodecyl acrylate	27905-45-9	0.025
20	1H,1H,2H,2H-Perfluorodecyl methacrylate	1996-88-9	0.025
21	Perfluoro-1-iodooctane	507-63-1	0.025
22	2H,2H-Perfluorodecane Acid	27854-31-5	0.025
23	Tetrabutylphosphonium 2H,2H-Perfluorodecanoate*	882489-14-7	0.025
24	1H,1H,2H,2H-Perfluoro-1-decanol	678-39-7	0.025
25	1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)	2043-53-0	0.025
26	1H,1H,2H,2H-Perfluorodecyltriethoxysilane	101947-16-4	0.025
27	bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) hydrogen phosphate	678-41-1	0.025
28	Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate*	114519-85-6	0.025
29	2H,2H,3H,3H-Perfluoroundecanoic acid	34598-33-9	0.025
30	Potassium 2H,2H,3H,3H-Perfluoroundecanoate*	83310-58-1	0.025

No.	Substance Name	CAS No.	MDL
31	Perfluorooctylethene	21652-58-4	0.025
32	3-Perfluoroheptyl propanoic acid	812-70-4	0.025
33	Pentadecafluorooctanoate (anion)*	45285-51-6	0.01
34	Perfluorooctane sulfonates	1763-23-1	0.01
35	Potassium Perfluorooctanesulfonate*	2795-39-3	0.01
36	Sodium perfluorooctane sulfonate*	4021-47-0	0.01
37	Perfluorooctanesulfonic acid, lithium salt*	29457-72-5	0.01
38	Ammonium perfluorooctanesulfonate*	29081-56-9	0.01
39	Perfluorooctane sulfonate diethanolamine salt*	70225-14-8	0.01
40	Perfluorooctanesulfonic acid, tetraethylammonium salt*	56773-42-3	0.01
41	N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate*	251099-16-8	0.01
42	TetrabutylAmmonium perfluorooctanesulfonate (PFOS-N(C ₄ H ₉) ₄)*	111873-33-7	0.01
43	Magnesium bis[heptadecafluorooctanesulphonate]*	91036-71-4	0.01
44	Perfluorooctane Sulfonyl fluoride*	307-35-7	0.01
45	Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate*	71463-74-6	0.01
46	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.01
47	N-methylperfluoro-1-octanesulfonamide	31506-32-8	0.01
48	2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.01
49	2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.01
50	Perfluorooctane Sulfonamide	754-91-6	0.01
51	Perfluorooctanesulfonamide lithium salt (1:1)*	76752-79-9	0.01
52	Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na)*	76752-78-8	0.01
53	Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K)*	76752-70-0	0.01
54	Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH ₄)*	76752-72-2	0.01
55	Perfluorononane Acid	375-95-1	0.01
56	Perfluorononanoate Na-Salt*	21049-39-8	0.01
57	Nonanoic acid, heptadecafluoro-, ammonium salt*	4149-60-4	0.01
58	Potassium perfluorononanoate*	21049-38-7	0.01
59	Perfluorononanoate Li-Salt*	60871-92-3	0.01
60	Silver perfluorononanoate*	7358-16-9	0.01
61	Methanaminium perfluorononanoate (PFNA-NH ₃ (CH ₃))*	77032-23-6	0.01
62	Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-, compd. with N-ethylethanamine (1:1) PFNA-NH ₂ (C ₂ H ₅) ₂ *)	77032-27-0	0.01
63	Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-, compd. with N-methylmethanamine (1:1) (PFNA-NH ₂ (CH ₃) ₂ *)	77032-24-7	0.01

No.	Substance Name	CAS No.	MDL
64	Nonanoic acid, heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (9CI) (PFNA-NH(C ₂ H ₅) ₃)*	327176-80-7	0.01
65	Nonanoic acid, heptadecafluoro-, compd. with piperidine (1:1) (9CI) (PFNA-NH ₂ (C ₅ H ₁₀))*	95682-66-9	0.01
66	Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-, compd. with benzenamine (1:1) (PFNA-NH ₃ (C ₆ H ₅))*	95682-67-0	0.01
67	Nonanoic acid, heptadecafluoro-, compd. with cyclohexanamine (1:1) (9CI) (PFNA-NH ₃ (C ₆ H ₁₁))*	328531-06-2	0.01
68	Perfluorononanoate (anion)*	72007-68-2	0.01
69	Perfluorodecane Acid	335-76-2	0.025
70	Sodium perfluorodecanoate*	3830-45-3	0.025
71	Perfluorodecanoate ammonium salt*	3108-42-7	0.025
72	Potassium perfluorodecanoate*	51604-85-4	0.025
73	Silver perfluorodecanoate*	5784-82-7	0.025
74	Lithium perfluorodecanoate*	84743-32-8	0.025
75	Perfluorodecanoate (anion)*	73829-36-4	0.025
76	Perfluoroundecanoic Acid	2058-94-8	0.01
77	Perfluoroundecanoic acid sodium salt*	60871-96-7	0.01
78	Ammonium perfluoroundecanoate*	4234-23-5	0.01
79	Potassium perfluoroundecanoate*	30377-53-8	0.01
80	Calcium perfluoroundecanoate*	97163-17-2	0.01
81	Perfluoroundecanoate (anion)*	196859-54-8	0.01
82	Perfluorododecanoic Acid	307-55-1	0.01
83	ammonium tricosafuorododecanoate*	3793-74-6	0.01
84	Sodium perfluorododecanoate*	60872-01-7	0.01
85	Perfluorododecanoate (anion)*	171978-95-3	0.01
86	Perfluorotridecanoic Acid	72629-94-8	0.01
87	Ammonium perfluorotridecanoate*	4288-72-6	0.01
88	Perfluorotridecanoate (anion)*	862374-87-6	0.01
89	Perfluorotetradecanoic Acid	376-06-7	0.01
90	Perfluorotetradecanoate (anion)*	365971-87-5	0.01
91	Perfluoro-3,7-dimethyloctanoic Acid	172155-07-6	0.01
92	Perfluorodecane Sulfonate	335-77-3	0.025
93	Perfluorodecanesulfonate Na-salt*	2806-15-7	0.025
94	Perfluorodecanesulfonate K-salt*	2806-16-8	0.025
95	Perfluorodecanesulfonic acid ammonium salt*	67906-42-7	0.025
96	Perfluorodecane sulfonate (anion)*	126105-34-8	0.025

No.	Substance Name	CAS No.	MDL
97	1H,1H,2H,2H-Perfluoro-1-dodecanol	865-86-1	0.025
98	1H,1H,2H,2H-Perfluorododecylacrylate	17741-60-5	0.025
99	1H,1H,2H,2H-Perfluorododecyl methacrylate	2144-54-9	0.025
100	1H,1H,2H,2H-perfluorotetradecan-1-ol	39239-77-5	0.025
101	1H,1H,2H,2H-Perfluorododecane sulfonic acid	120226-60-0	0.025
102	1,1,2,2-Tetrahydroperfluorododecyl iodide	2043-54-1	0.025
103	1H,1H,2H,2H-Perfluorotetradecyl iodide	30046-31-2	0.025
104	Perfluoro nonane sulfonic acid	68259-12-1	0.025
105	Sodium perfluoro-1-nonanesulfonate*	98789-57-2	0.025
106	Potassium perfluorononanesulfonate*	29359-39-5	0.025
107	Perfluorononane sulfonate (anion)*	474511-07-4	0.025
108	ammonium nonadecafluorononanesulphonate*	17202-41-4	0.025
109	Perfluoroundecane sulfonic acid	749786-16-1	0.025
110	Perfluoroundecanesulfonate (anion)*	441296-91-9	0.025
111	Perfluorododecanesulfonic acid	79780-39-5	0.025
112	Sodium perfluoro-1-dodecanesulfonate*	1260224-54-1	0.025
113	Potassium perfluorododecanesulfonate*	85187-17-3	0.025
114	Perfluorododecane sulfonate (anion)*	343629-43-6	0.025
115	Perfluorotridecane sulfonic acid	791563-89-8	0.025
116	Sodium perfluoro-1-tridecanesulfonate*	174675-49-1	0.025
117	10:2 Fluorotelomerphosphatediester*	1895-26-7	0.025
118	Perfluorodecyl iodide	423-62-1	0.025
119	Perfluorododecyl iodide	307-60-8	0.025
120	Perfluorohexane Sulfonate*	355-46-4	0.010
121	Perfluorohexanesulfonate Na-salt*	82382-12-5	0.010
122	Perfluorohexanesulfonate K-salt*	3871-99-6	0.010
123	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, lithium salt (1:1)*	55120-77-9	0.010
124	Ammonium perfluorohexane-1-sulphonate*	68259-08-5	0.010
125	Phosphonium, triphenyl(phenylmethyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)*	1000597-52-3	0.025
126	N,N,N-tributylbutan-1-aminium tridecafluorohexane-1-sulfonate*	108427-54-9	0.025
127	N,N,N-triethylethanaminium tridecafluorohexane-1-sulfonate*	108427-55-0	0.025
128	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. With pyrrolidine (1:1)*	1187817-57-7	0.025
129	Ethanaminium, N-[4-[[4-(diethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-	1310480-24-0	0.025

No.	Substance Name	CAS No.	MDL
	2,5-cyclohexadien-1-ylidene]-N-ethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (Calculated in terms of PFHxS)*		
130	Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)*	1310480-27-3	0.025
131	Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(phenylamino)-1-naphthalenyl]methyle ne]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)*	1310480-28-4	0.025
132	Beta-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid ion(1-)(1:1)*	1329995-45-0	0.025
133	Gamma-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid ion(1-)(1:1)*	1329995-69-8	0.025
134	Sulfonium, triphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)*	144116-10-9	0.025
135	Quinolinium, 1-(carboxymethyl)-4-[2-[4-[4-(2,2-diphenylethenyl)phenyl]-1,2,3,3a,4,8b-h exahydrocyclopent[b]indol-7-yl]ethenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)*	1462414-59-0	0.025
136	Iodonium, diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)*	153443-35-7	0.025
137	Methanaminium, N,N,N-trimethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1)*	189274-31-5	0.025
138	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. with 2-methyl-2-propanamine (1:1)*	202189-84-2	0.025
139	Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)*	213740-81-9	0.025
140	Sulfonium, bis(4-methylphenyl)phenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)*	341548-85-4	0.025
141	Sulfonium, (thiodi-4,1-phenylene)bis[diphenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:2)*	421555-73-9	0.025
142	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, gallium salt (9Cl)*	341035-71-0	0.010
143	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, scandium(3+) salt (3:1)*	350836-93-0	0.010
144	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-,	41184-65-0	0.010

No.	Substance Name	CAS No.	MDL
	neodymium(3+) salt (3:1)*		
145	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, yttrium(3+) salt (3:1)*	41242-12-0	0.010
146	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, cesium salt (1:1) (PFHxS-Cs)*	92011-17-1	0.010
147	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, zinc salt*	70136-72-0	0.010
148	Iodonium, bis[4-(1,1-dimethylpropyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic*	421555-74-0	0.025
149	Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)*	425670-70-8	0.025
150	Tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1)*	70225-16-0	0.025
151	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. with N,N-diethylethanamine (1:1)*	72033-41-1	0.025
152	Iodonium, bis[(1,1-dimethylethyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) (9Cl)*	866621-50-3	0.025
153	Sulfonium, (4-methylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)*	910606-39-2	0.025
154	Sulfonium, [4-[(2-methyl-1-oxo-2-propen-1-yl)oxy]phenyl]diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)*	911027-68-4	0.025
155	Dibenzo[k,n][1,4,7,10,13]tetraoxathiacyclopentadecinium, 19-[4-(1,1-dimethylethyl)phenyl]-6,7,9,10,12,13-hexahydro-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)*	928049-42-7	0.025
156	Perfluorohexylsulfonyl fluoride*	423-50-7	0.010
157	Perfluorohexylsulfonyl chloride*	55591-23-6	0.025
158	Sulfonium, [4-[(2-methyl-1-oxo-2-propenyl)oxy]phenyl]diphenyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1), polymer with 2-ethyltricyclo[3.3.1.1 ^{3,7}]dec-2-yl 2-methyl-2-propenoate, 3-hydroxytricyclo[3.3.1.1 ^{3,7}]dec-1-yl 2-methyl-2-propenoate and tetrahydro-2-oxo-3-furanyl 2-methyl-2-propenoate*	911027-69-5	0.025
159	Perfluorohexane sulfonate (anion)*	108427-53-8	0.025
160	N-Methylperfluoro-1-hexanesulfonamide (N-Me-PFHxSA)	68259-15-4	0.01
161	Perfluorohexane sulfonamide	41997-13-1	0.025
162	N-[3-(dimethylamino)propyl]tridecafluorohexanesulphonamide	50598-28-2	0.025
163	2-[methyl[(tridecafluorohexyl)sulphonyl]amino]ethyl acrylate	67584-57-0	0.025
164	2-Propenoic acid, 2-methyl-, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester	67584-61-6	0.025

No.	Substance Name	CAS No.	MDL
165	2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester	67906-70-1	0.1
166	1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-N-methyl-	68555-75-9	0.1
167	Glycine, N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]-	68957-32-4	0.1
168	Potassium N-ethyl-n-[(tridecafluorohexyl)sulfonyl]glycinate*	67584-53-6	0.1
169	Sodium N-ethyl-N-((tridecafluorohexyl)sulphonyl)glycinate*	68555-70-4	0.1
170	Perfluorohexane Acid	307-24-4	0.01
171	Ammonium perfluorohexanoate*	21615-47-4	0.01
172	Sodium perfluorohexanoate*	2923-26-4	0.01
173	Potassium perfluorohexanoate*	3109-94-2	0.01
174	Perfluorohexanoyl fluoride*	355-38-4	0.01
175	Silver perfluorohexanoate*	336-02-7	0.01
176	Lithium perfluorohexanoate*	90430-61-8	0.01
177	Perfluorohexanoic anhydride*	308-13-4	0.01
178	Hexanoic acid, undecafluoro-, compd. with piperazine (2:1) (8Cl,9Cl)*	423-47-2	0.01
179	Perfluorohexanoate (anion)*	92612-52-7	0.01
180	Perfluorobutane Acid	375-22-4	0.01
181	Sodium perfluorobutanoate*	2218-54-4	0.01
182	Potassium heptafluorobutanoate*	2966-54-3	0.01
183	Ammonium perfluorobutanoate*	10495-86-0	0.01
184	Silver perfluorobutanoate*	3794-64-7	0.01
185	Lithium perfluorobutanoate*	4146-76-3	0.01
186	Heptafluorobutanoic acid-piperazine (1:1)*	375-04-2	0.01
187	Perfluorobutanoate (anion)*	45048-62-2	0.01
188	Perfluorobutane Sulfonate	375-73-5	0.01
189	Perfluorobutanesulfonate K-salt*	29420-49-3	0.01
190	Perfluorobutanesulfonic Acid Hydrate*	59933-66-3	0.01
191	1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, sodium salt (1:1)*	60453-92-1	0.01
192	lithium perfluorobutanesulfonate*	131651-65-5	0.01
193	Ammonium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonate*	68259-10-9	0.01
194	Magnesium perfluorobutanesulfonate*	507453-86-3	0.01
195	Triphenyl Sulfonium Perfluorobutane Sulfonate*	144317-44-2	0.025
196	Tetrabutyl-phosphonium nonafluoro-butane-1-sulfonate*	220689-12-3	0.025
197	N,N,N,-triethylethanaminium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulfonate*	25628-08-4	0.025

No.	Substance Name	CAS No.	MDL
198	Morpholinium perfluorobutanesulfonate*	503155-89-3	0.025
199	Bis(4-tert-butylphenyl)iodonium perfluoro-1-butanesulfonate*	194999-85-4	0.025
200	1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonic acid, compound with 2,2'-iminodiethanol (1:1)*	70225-18-2	0.025
201	Tetrabutylammonium nonafluorobutanesulfonate ((PFBS-N(C ₄ H ₉) ₄))*	108427-52-7	0.025
202	Diphenyliodonium nonafluorobutane-1-sulfonate((PFBS-I(C ₆ H ₅) ₂))*	194999-82-1	0.025
203	Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)*	241806-75-7	0.025
204	Sulfonium, (4-cyclohexylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)*	425670-64-0	0.025
205	Thiophenium, tetrahydro-1-(1-methyl-1H-indol-3-yl)-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)*	867373-18-0	0.025
206	Pyridinium, 1-ethyl-3-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)*	1015420-87-7	0.025
207	1H-Imidazolium, 1-methyl-3-octyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)*	905972-83-0	0.025
208	1H-Imidazolium, 3-hexyl-1-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)*	1001557-05-6	0.025
209	2-Propanaminium, N,N-dimethyl-N-(1-methylethyl)-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)*	374571-81-0	0.025
210	Sulfonium, [4-[2-(1,1-dimethylethoxy)-2-oxoethoxy]phenyl]diphenyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)*	857285-80-4	0.025
211	1-Butanaminium, N,N-dibutyl-N-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)*	124472-66-8	0.025
212	1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, zinc salt (2:1) (PFBS-Zn)*	502457-69-4	0.025
213	1-Pentanaminium, N,N,N-tripropyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)*	56773-55-8	0.025
214	Perfluorobutanesulfonic acid tetramethylammonium salt (PFBS-N(CH ₃) ₄)*	25628-17-5	0.025
215	1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, 1,1'-anhydride*	36913-91-4	0.025
216	Perfluorobutane sulfonate (anion)*	45187-15-3	0.010
217	Nonafluorobutanesulfonyl fluoride*	375-72-4	0.010
218	1,1,2,2,3,3,4,4,4-Nonafluorobutane-1-sulfonyl chloride*	2991-84-6	0.010
219	Dimethyl(phenyl)sulfanium perfluorobutanesulfonate*	220133-51-7	0.025
220	1-(4-butoxy-1-naphthyl)tetrahydrothiophenium nonafluorobutane-1-sulfonate*	209482-18-8	0.025
221	Perfluoropentane Acid	2706-90-3	0.01

No.	Substance Name	CAS No.	MDL
222	Sodium perfluoropentanoate*	2706-89-0	0.01
223	Potassium perfluoropentanoate*	336-23-2	0.01
224	Ammonium perfluoropentanoate*	68259-11-0	0.01
225	Perfluoropentanoate (anion)*	45167-47-3	0.01
226	Lithium perfluoropentanoate*	198482-22-3	0.01
227	Silver perfluoropentanoate*	2795-30-4	0.01
228	Perfluoroheptane Acid	375-85-9	0.01
229	Sodium perfluoroheptanoate*	20109-59-5	0.01
230	Potassium perfluoroheptanoate*	21049-36-5	0.01
231	Ammonium perfluoroheptanoate*	6130-43-4	0.01
232	Cesium perfluoroheptanoate*	171198-24-6	0.01
233	Silver perfluoroheptanoate*	424-05-5	0.01
234	Lithium perfluoroheptanoate*	60871-90-1	0.01
235	Perfluoroheptanoate (anion)*	120885-29-2	0.01
236	Perfluoroheptanesulfonic Acid	375-92-8	0.01
237	Perfluoroheptanesulfonate Na-salt*	21934-50-9	0.01
238	Potassium Perfluoroheptanesulfonate*	60270-55-5	0.01
239	Ammonium perfluoroheptanesulfonate*	68259-07-4	0.01
240	Lithium perfluoroheptanesulfonate*	117806-54-9	0.01
241	1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-, compd. with 2,2'-iminobis[ethanol] (1:1)*	70225-15-9	0.01
242	Perfluoroheptane sulfonate (anion)*	146689-46-5	0.01
243	7H-Dodecanefluoroheptane Acid	1546-95-8	0.01
244	Sodium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate*	2264-25-7	0.01
245	Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate*	376-34-1	0.01
246	1H,1H,2H,2H-Perfluorooctanesulphonic acid	27619-97-2	0.025
247	Sodium 1H,1H,2H,2H-Perfluorooctanesulfonate*	27619-94-9	0.025
248	Potassium 1H,1H,2H,2H-Perfluorooctanesulfonate*	59587-38-1	0.025
249	Ammonium 1H,1H,2H,2H-Perfluorooctanesulfonate*	59587-39-2	0.025
250	1-Octanesulfonic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-, barium salt (2:1)*	1807944-82-6	0.025
251	1H,1H,2H,2H-Perfluorooctylacrylate	17527-29-6	0.1
252	1H,1H,2H,2H-Perfluoro-1-hexanol	2043-47-2	0.1
253	1H,1H,2H,2H-Perfluoro-1-octanol	647-42-7	0.1
254	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid	13252-13-6	0.025
255	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, ammonium salts*	62037-80-3	0.025

No.	Substance Name	CAS No.	MDL
256	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, K- salts*	67118-55-2	0.025
257	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its acyl halides*	2062-98-8	0.025
258	1H,1H,2H,2H-Perfluorohexanesulfonic acid	757124-72-4	0.025
259	1H,1H,2H,2H-perfluorohexane sulfonate acid sodium salt*	27619-93-8	0.025
260	Perfluorooctane sulfonamidoacetic Acid	2806-24-8	0.025
261	N-Methylperfluoro-1-octanesulfonamidoacetic Acid	2355-31-9	0.025
262	N-Ethylperfluorooctane sulfonamidoacetic Acid	2991-50-6	0.025
263	Perfluoropentane sulfonic acid	2706-91-4	0.025
264	Sodium perfluoro-1-pentanesulfonate*	630402-22-1	0.025
265	Potassium perfluoropentane-1-sulphonate*	3872-25-1	0.025
266	Ammonium perfluoropentanesulfonate*	68259-09-6	0.025
267	Bis(2-hydroxyethyl) ammonium 1,1,2,2,3,3,4,4,5,5,5-undecafluoropentane-1-sulphonate*	70225-17-1	0.025
268	Undecafluoropentane-1-sulfonic acid lithium salt*	1046864-81-6	0.025
269	Perfluoropentane sulfonate (anion)*	175905-36-9	0.025
270	2-Perfluorohexyl ethanoic acid	53826-12-3	0.025
271	3-Perfluoropentyl propanoic acid	914637-49-3	0.025
272	Perfluorohexadecanoic Acid	67905-19-5	0.025
273	Perfluorooctadecanoic Acid	16517-11-6	0.025
274	1H,1H,2H,2H-Perfluorooctyl methacrylate	2144-53-8	0.025
275	4,8-Dioxa-3H-perfluorononanoic acid	919005-14-4	0.025
276	Ammonium 4,8-dioxa-3H-perfluorononanoate*	958445-44-8	0.025
277	Sodium 4,8-dioxa-3H-perfluorononanoate*	2250081-67-3	0.025
278	Perfluoro-3-methoxypropanoic acid	377-73-1	0.025
279	Perfluoro-4-methoxybutanoic acid	863090-89-5	0.025
280	Nonafluoro-3,6-dioxaheptanoic acid	151772-58-6	0.025
281	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	756426-58-1	0.025
282	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	763051-92-9	0.025
283	Perfluoro(2-ethoxyethane)sulfonic acid	113507-82-7	0.025
284	3-Perfluoropropyl propanoic acid	356-02-5	0.025
285	Perfluoropentadecanoic acid	141074-63-7	0.025
286	1H,1H,2H,2H-Perfluorohexylmethacrylate	1799-84-4	0.025
287	2-(N-ethylperfluorooctanesulfamido)ethyl acrylate	423-82-5	0.025
288	Perfluorooctyl triethoxysilane	51851-37-7	0.025
289	1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodooctane	2043-57-4	0.1
290	Perfluorobutane sulfon amides	30334-69-1	0.1
291	1,1,2,2,3,3,4,4,4-nonafluoro-N-(2-hydroxyethyl)-N-methylbutane-1-sulpho	34454-97-2	0.025

No.	Substance Name	CAS No.	MDL
	namide		
292	11H-Perfluoroundecanoic acid	1765-48-6	0.025
293	potassium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosafuoroundecanoate*	307-71-1	0.025
294	Ammonium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosafuoroundecanoate*	5081-02-7	0.025
295	Pentafluoropropionic acid	422-64-0	0.025
296	Sodium pentafluoropropionate (PFPrA-Na)*	378-77-8	0.025
297	Silver pentafluoropropionate (PFPrA-Ag)*	509-09-1	0.025
298	Potassium pentafluoropropionate (PFPrA-K)*	378-76-7	0.025
299	Ammonium pentafluoropropionate (PFPrA-NH ₄)*	2730-58-7	0.025
300	1H,1H,2H,2H-Perfluorodecyltrichlorosilane	78560-44-8	0.1
301	1H,1H,2H,2H-Perfluorodecyltrimethoxysilane	83048-65-1	0.1
302	1H,1H,2H,2H-Perfluorooctyltrichlorosilane	78560-45-9	0.1
303	1H,1H,2H,2H-Perfluorodecylmethyldichlorosilane	3102-79-2	0.1
304	2H-Perfluoro-2-decenoic acid	70887-84-2	0.025
305	2H-Perfluoro-2-octenoic acid	70887-88-6	0.025
306	2H-Perfluoro-2-dodecenoic acid	70887-94-4	0.025
307	2-Perfluorodecyl ethanoic acid	53826-13-4	0.025
308	6:6 Perfluorophosphinic acid	40143-77-9	0.025
309	6:8 Perfluorophosphinic acid	610800-34-5	0.025
310	8:8 Perfluorophosphinic acid	40143-79-1	0.025
311	Perfluoroheptanesulfonate Na-salt(PFHpS-Na)*	68555-66-8	0.025
312	Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,10,10,10-octadecafluoro-9-(trifluoromethyl)-, ammonium salt*	3658-63-7	0.025
313	Dodecanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafuoro-11-(trifluoromethyl)-	15811-52-6	0.025
314	Tetradecanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafuoro-13-(trifluoromethyl)-	68025-62-7	0.025
315	Tetradecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafuoro-13-(trifluoromethyl)-	18024-09-4	0.025
316	Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafuoro-11-(trifluoromethyl)-	16486-96-7	0.025
317	Sodium perfluorovalerate salt*	2483735-37-9	0.01

No.	Substance Name	CAS No.	MDL
318	Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14-nonac osafluoro-14-iodo-	307-63-1	0.025
319	Sodium Perfluoroundecane sulfonic*	—	0.01
320	2H,2H,3H,3H-Perfluorononanoic acid	27854-30-4	0.025
321	1-Methyl-3-(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)imidazolium hexafluorophosphate*	313475-50-2	0.025
322	Perfluorohexanoyl chloride	335-53-5	0.025
323	Trifluoroacetic Acid (TFA)	76-05-1	0.025
324	Pentadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15- hentriacontafluoro-15-iodo-	335-79-5	0.025
325	Tridecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13-heptacosafi uoro-13-iodo-	376-04-5	0.025
326	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, potassium salt (1:1)	423-49-4	0.025
327	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, silver(1+) salt (1:1)	133310-71-1	0.025
328	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) salt (3:1)	133331-77-8	0.025
329	Methyl Undecafluorohexanoate	424-18-0	0.025
330	Sodium perfluoro-1-undecanesulfonate*	—	0.025
331	Butanoic acid, 3,3,4,4,4-pentafluoro-2-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-2-(trifl uoromethyl)-	1882109-59-2	0.025
332	Hexanoic acid,2,2,4,4,5,5,6,6,6- nonafluoro-3,3-bis(trifluoromethyl)-	1812247-20-3	0.025
333	Hexanoic acid,2,3,4,4,5,5,6,6,6-nonafluoro-2,3-bis(trifluoromethyl)-	1812247-18-9	0.025
334	Hexanoic acid,2,2,3,3,4,5,6,6,6-nonafluoro-4,5-bis(trifluoromethyl)-	1144512-36-6	0.025
335	Hexanoic acid,2,2,3,3,4,4,6,6,6-nonafluoro-5,5-bis(trifluoromethyl)-	1144512-34-4	0.025
336	Heptanoic acid,2,2,3,3,4,4,5,6,6,7,7,7-dodecafluoro-5-(trifluoromethyl)-	909009-42-3	0.025
337	Heptanoic acid,2,3,3,4,4,5,5,6,6,7,7,7-dodecafluoro-2-(trifluoromethyl)-	207678-51-1	0.025
338	Hexanoic acid,2,3,3,4,4,5,5,6,6,6- decafluoro-2-(1,1,2,2,2-pentafluoroethyl)-	35605-76-6	0.025
339	Hexanoic acid,2,3,3,4,4,5,6,6,6-nonafluoro-2,5-bis(trifluoromethyl)-	1882109-80-9	0.025
340	Butanoic acid, 3,3,4,4,4-pentafluoro-2,2-bis(1,1,2,2,2-pentafluoroethyl)-	1882109-58-1	0.025

No.	Substance Name	CAS No.	MDL
341	Hexanoic acid,2,3,3,4,5,5,6,6,6-nonafluoro-2,4-bis(trifluoromethyl)-	1812247-19-0	0.025
342	Hexanoic acid,3,3,4,4,5,5,6,6,6-nonafluoro-2,2-bis(trifluoromethyl)-	1812247-17-8	0.025
343	Hexanoic acid,2,2,3,3,5,5,6,6,6-nonafluoro-4,4-bis(trifluoromethyl)-	1192593-79-5	0.025
344	Hexanoic acid,2,2,3,4,4,5,6,6,6-nonafluoro-3,5-bis(trifluoromethyl)-	1144512-35-5	0.025
345	Heptanoic acid,2,2,3,3,4,5,5,6,6,7,7,7-dodecafluoro-4-(trifluoromethyl)-	1144512-18-4	0.025
346	Heptanoic acid,2,2,3,4,4,5,5,6,6,7,7,7-dodecafluoro-3-(trifluoromethyl)-	705240-04-6	0.025
347	Heptanoic acid,2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-	15166-06-0	0.025
348	Hexanoic acid,2,2,3,4,5,5,6,6,6-nonafluoro-3,4-bis(trifluoromethyl)-	1882109-81-0	0.025
349	Hexanoic acid,2,2,3,3,4,5,5,6,6,6-decafluoro-4-(1,1,2,2,2-pentafluoroethyl)-	1882109-79-6	0.025
350	Hexanoic acid,2,2,3,4,4,5,5,6,6,6-decafluoro-3-(1,1,2,2,2-pentafluoroethyl)-	1882109-78-5	0.025
351	Pentanoic acid,2,3,3,4,4,5,5,5-octafluoro-2-(1,1,2,2,3,3,3-heptafluoropropyl)-	1882109-77-4	0.025
352	Pentanoic acid,2,3,3,4,4,5,5,5-octafluoro-2-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-	1882109-76-3	0.025
353	Pentanoic acid,2,2,3,5,5,5-hexafluoro-3,4,4-tris(trifluoromethyl)-	1882109-75-2	0.025
354	Pentanoic acid,2,2,4,5,5,5-hexafluoro-3,3,4-tris(trifluoromethyl)-	1882109-74-1	0.025
355	Pentanoic acid,2,3,3,5,5,5-hexafluoro-2,4,4-tris(trifluoromethyl)-	1882109-73-0	0.025
356	Pentanoic acid,2,3,4,5,5,5-hexafluoro-2,3,4-tris(trifluoromethyl)-	1882109-72-9	0.025
357	Pentanoic acid,2,4,4,5,5,5-hexafluoro-2,3,3-tris(trifluoromethyl)-	1882109-71-8	0.025
358	Pentanoic acid,3,3,4,5,5,5-hexafluoro-2,2,4-tris(trifluoromethyl)-	1882109-70-7	0.025
359	Pentanoic acid,2,2,3,4,5,5,5-heptafluoro-3-(1,1,2,2,2-pentafluoroethyl)-4-(trifluoromethyl)-	1882109-68-3	0.025
360	Pentanoic acid,2,2,4,4,5,5,5-heptafluoro-3-(1,1,2,2,2-pentafluoroethyl)-3-(trifluoromethyl)-	1882109-67-2	0.025
361	Pentanoic acid,2,3,4,4,5,5,5-heptafluoro-3-(1,1,2,2,2-pentafluoroethyl)-2-(trifluoromethyl)-	1882109-66-1	0.025
362	Pentanoic acid,2,3,3,4,5,5,5-heptafluoro-2-(1,1,2,2,2-pentafluoroethyl)-4-(trifluoromethyl)-	1882109-65-0	0.025
363	Pentanoic acid,2,3,4,4,5,5,5-heptafluoro-2-(1,1,2,2,2-pentafluoroethyl)-3-(trifluoromethyl)-	1882109-64-9	0.025
364	Pentanoic acid,3,3,4,4,5,5,5-heptafluoro-2-(1,1,2,2,2-pentafluoroethyl)-2-(trifluoromethyl)-	1882109-63-8	0.025
365	Pentanoic acid,3,4,4,5,5,5-hexafluoro-2,2,3-(trifluoromethyl)-	1882109-69-4	0.025
366	Butanoic acid, 4,4,4-trifluoro-2,2,3,3-tetrakis(trifluoromethyl)-	1882109-62-7	0.025

No.	Substance Name	CAS No.	MDL
367	Butanoic acid, 2,3,4,4,4-pentafluoro-2-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-3-(trifluoromethyl)-	1882109-61-6	0.025
368	Butanoic acid,2,3,3,4,4,4-hexafluoro-2-[2,2,2-trifluoro-1,1-bis(trifluoromethyl)ethyl]-	1882109-60-5	0.025
369	Hexanoic acid,2,3,3,4,4,5,5,6,6,6-decafluoro-2-(1,1,2,2,2-pentafluoroethyl)-, ammonium salt (1:1)*	13058-06-5	0.025
370	Hexanoic acid,2,3,3,4,4,5,5,6,6,6-decafluoro-2-(1,1,2,2,2-pentafluoroethyl)-, sodium salt (1:1)*	1195164-59-0	0.025
371	Heptanoic acid,2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, ammonium salt (1:1)*	19742-57-5	0.025
372	Heptanoic acid,2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, iron salt (1:x)*	61436-04-2	0.025
373	Heptanoic acid,2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, potassium salt (1:1)*	29457-73-6	0.025
374	Heptanoic acid,2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, sodium salt (1:1)*	18017-22-6	0.025
375	Heptanoic acid,2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, chromium salt (1:x)*	15739-82-9	0.025
376	Heptanoic acid,2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, aluminum salt (3:1)*	15715-47-6	0.025
377	Heptanoic acid,2,3,3,4,4,5,5,6,6,7,7,7-dodecafluoro-2-(trifluoromethyl)-, ammonium salt (1:1)*	207678-62-4	0.025
378	Heptanoic acid,2,3,3,4,4,5,5,6,6,7,7,7-dodecafluoro-2-(trifluoromethyl)-, sodium salt (1:1)*	207678-72-6	0.025
379	Heptanoic acid,2,2,3,4,4,5,5,6,6,7,7,7-dodecafluoro-3-(trifluoromethyl)-, sodium salt (1:1)*	646-84-4	0.025
380	Sodium trifluoroacetate*	2923-18-4	0.025
381	Thallium(III) trifluoroacetate*	23586-53-0	0.025
382	Lithium Trifluoroacetate*	2923-17-3	0.025
383	Silver trifluoroacetate*	2966-50-9	0.025
384	Cesium Trifluoroacetate*	21907-50-6	0.025
385	Potassium trifluoroacetate*	2923-16-2	0.025
386	Ammoniumtrifluoroacetate*	3336-58-1	0.025
387	Mercury(II) trifluoroacetate*	13257-51-7	0.025
388	Palladium(II) trifluoroacetate*	42196-31-6	0.025
389	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-henicosafuorododecyl	57678-05-4	0.025

No.	Substance Name	CAS No.	MDL
	dihydrogen phosphate		
390	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-Henicosafuorododecyl dihydrogen phosphate cyclohexylamine*	2514858-66-1	0.025
391	2,2,3,3,4,4,4-heptafluorobutyramide	662-50-0	0.025
392	Tridecafluoroheptanamide	2358-22-7	0.025
393	(Perfluorohexyl)ethylene	25291-17-2	0.025
394	Norflurane	811-97-2	0.025
395	Pentafluoroethane	354-33-6	0.025
396	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl dihydrogen phosphate	57678-03-2	0.025
397	Potassium 11-chloroeicosafuoro-3-oxaundecane-1-sulfonate*	83329-89-9	0.025
398	Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate*	73606-19-6	0.025
399	Ammonium bis(1H,1H,2H,2H-perfluorodecyl)phosphate*	93776-20-6	0.025
400	perfluorodecylphosphonic acid	52299-26-0	0.025
401	1H,1H,2H,2H-Perfluorododecanesulfonic Acid Sodium*	108026-35-3	0.025
402	3-(Perfluorohexyl)propan-1-ol	80806-68-4	0.025
403	Methyl Perfluoroamyl Ketone	2708-07-8	0.025
404	Perfluorotributylamine	311-89-7	0.025
405	Trimethyl(tridecafluorohexyl)silane	135841-49-5	0.025
406	2,2,3,3,4,4,4-heptafluoro-1-butanol	375-01-9	0.025
407	1H,1H-Tridecafluoro-1-iodoheptane	212563-43-4	0.025
408	Ethyl Undecafluoroamyl Ketone	383177-55-7	0.025
409	1-Bromoperfluorohexane	335-56-8	0.025
410	N-(4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl)iodoacetamide	852527-50-5	0.025
411	Perfluorooctane	307-34-6	0.025
412	Trimethoxy(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane	85857-16-5	0.025
413	2,2,3,3,4,4,5,5,6,6,6-undecafluorohexan-1-ol	423-46-1	0.025
414	3-Perfluorohexyl-1,2-epoxypropane	38565-52-5	0.025
415	1,1,1,2,2,3,4,5,5,5-Decafluoro-3-methoxy-4-(trifluoromethyl)pentane	132182-92-4	0.025
416	Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt	2991-51-7	0.025
417	Perfluorooctanoate N,N,N-Trimethylmethanaminium	32609-65-7	0.025
418	Tetrapropylammonium perfluorooctanoate*	277749-00-5	0.025
419	N,N,N-Triethylethanaminium perfluorooctanoate*	98241-25-9	0.025
420	Lithium 3-(perfluorooctyl)propanoate*	67304-23-8	0.025
421	1-(Perfluorohexyl)-2-iodopropane	38550-34-4	0.025
422	3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl thiocyanate	26650-09-9	0.025
423	4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl iodide	89889-20-3	0.025

No.	Substance Name	CAS No.	MDL
424	3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctane-1-thiol	34451-26-8	0.025
425	1H,1H,2H,2H-Perfluorooctyldimethylchlorosilane	102488-47-1	0.025
426	Triethoxy[5,5,6,6,7,7,7-heptafluoro-4,4-bis(trifluoromethyl)heptyl]silane	130676-81-2	0.025
427	1H,1H-Perfluoro-1-heptanol	375-82-6	0.025
428	4-(3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl)benzyl alcohol	356055-76-0	0.025
429	1H,1H,2H,2H-Perfluorodecyl acetate	37858-04-1	0.025
430	2-(Perfluorohexyl)ethyltris(1-methylethoxy)silane	1240203-07-9	0.025
431	Bis(1,1,2,2,3,3,4,4,4-nonafluoro-1-butaneulfonyl)imide	39847-39-7	0.025
432	Carboxymethyldimethyl-3-[[[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)sulphonyl]amino]propylammonium hydroxide*	34455-29-3	0.025
433	2,2-difluoro-2-(trifluoromethoxy)acetic acid	674-13-5	0.025
434	Bis[2-[N-ethyl(heptadecafluorooctanesulphonyl)amino]ethyl] hydrogen phosphate	2965-52-8	0.025
435	Perfluorohexyl ethylphosphonic acid	252237-40-4	0.025
436	Tridecafluorooctyl-phosphonic acid sodium salt (1:1)*	1189052-95-6	0.025
437	1-Octanol, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-, 1-(dihydrogen phosphate)	57678-01-0	0.025
438	Perfluoro-3,6-dioxaoctanoic acid	80153-82-8	0.025
439	7H-Perfluoro-4-methyl-3,6-dioxaoctanesulfonic acid	749836-20-2	0.025
440	Tetramethylammonium perfluorooctane sulfonate	56773-44-5	0.025
441	Perfluorooctanesulfonic acid diethylamine salt	2205029-08-7	0.025
442	Triethylammonium perfluorooctane sulfonate	54439-46-2	0.025
443	N,N-Dibutyl-N-methylbutan-1-aminium heptadecafluorooctane-1-sulfonate	124472-68-0	0.025
444	N,N,N-Tripropylpentan-1-aminium heptadecafluorooctane-1-sulfonate	56773-56-9	0.025
445	Tetrabutylphosphonium perfluorooctane sulfonate	2185049-59-4	0.025
446	heptyldimethyl{2-[(2-methylprop-2-enoyl)oxy]ethyl}azanium heptadecafluorooctane-1-sulfonate	1203998-97-3	0.025
447	Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, salt with perfluoro-1-octanesulfonic acid (1:1)	213740-80-8	0.025
448	Diphenyl(2,4,6-trimethylphenyl)sulfonium perfluoro-1-octanesulfonate	258341-99-0	0.025
449	1-Hexadecylpyridinium perfluoro-1-octanesulfonate	334529-63-4	0.025
450	Perfluorooctane sulfonic anhydride	423-92-7	0.025
451	Potassium pentadecafluorooctanoate--water (1/1/2)*	98065-31-7	0.025
452	Perfluorooctanoic acid compd. with ethanamine (1:1)	1376936-03-6	0.025
453	Pentadecafluorooctanoic acid--pyridine (1/1)	95658-47-2	0.025
454	pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1)	1514-68-7	0.025

No.	Substance Name	CAS No.	MDL
455	N,N,N-Trimethyloctan-1-aminium pentadecafluorooctanoate*	927835-01-6	0.025
456	2-(Perfluorooctyl)ethane-1-sulfonate*	481071-78-7	0.025
457	8:2 Fluorotelomer phosphate diester ion (1-)*	1411713-91-1	0.025
458	Bis(2-hydroxyethyl)ammonium bis((perfluorooctyl)ethyl) hydrogen phosphate	57677-97-1	0.025
459	Heptafluorooctane-1-sulphonamide, compound with triethylamine (1:1)	76752-82-4	0.025
460	Undecafluorohexanoic acid--hexan-1-amine (1/1)	565225-91-4	0.025
461	1-phenylpiperazine; 2,2,3,3,4,4,5,5,6,6,6-undecafluorohexanoic acid	985-60-4	0.025
462	Triethylammonium perfluoroheptane sulfonate	72033-40-0	0.025
463	Tetraethylammonium perfluoroheptane sulfonate	439863-97-5	0.025
464	Perfluoroheptane sulfonic anhydride	140429-92-1	0.025
465	Perfluorodecane sulfonic anhydride	51667-62-0	0.025
466	2-(Perfluorohexyl)ethane-1-sulfonate*	425670-75-3	0.025
467	Nonafluoropentanoic acid - 1-benzylthiourea (1:1)	64808-55-5	0.025
468	Perfluoropentanoic anhydride	308-28-1	0.025
469	4-[(6-Methoxy-3-pyridazinyl)sulfamoyl]anilinium heptafluorononanoate	298703-33-0	0.025
470	Perfluorononanoic anhydride	228407-54-3	0.025
471	Perfluorodecanoic anhydride	942199-24-8	0.025
472	7-H-Perfluoroheptanoate*	69681-35-2	0.025
473	Perfluoro(2-propoxypropanoate)*	122499-17-6	0.025
474	Sodium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate*	67963-75-1	0.025
475	Triethylaminium perfluoro-2-propoxypropanoate	165951-18-8	0.025
476	2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid--N-propylpropan-1-amine (1/1)	165951-17-7	0.025
477	4-[(6-Methoxy-3-pyridazinyl)sulfamoyl]anilinium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate	298703-31-8	0.025
478	2,3,6-Triiodobenzoic acid (1-methyl-3-piperidinyl)methyl ester compd. with perfluoro-2-(propoxy)propanoate (1:1)	2412106-69-3	0.025
479	Perfluorooctadecanoate anion*	798556-82-8	0.025
480	Hentriacontafluorohexadecanoate anion*	1214264-30-8	0.025
481	2-(N-Methylperfluorooctanesulfonamido)acetate*	909405-48-7	0.025
482	Potassium N-((heptafluorooctyl)sulphonyl)-N-methylglycinate*	70281-93-5	0.025
483	2-(N-Ethyl-perfluorooctanesulfonamido)acetate*	909405-49-8	0.025
484	Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate*	2991-52-8	0.025
485	Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate*	3871-50-9	0.025

No.	Substance Name	CAS No.	MDL
486	4:2 Fluorotelomer sulfonate*	414911-30-1	0.025
487	11-H-Perfluoroundecanoate*	69681-37-4	0.025
488	N-[(Perfluorooctyl)sulfonyl]glycinate*	909405-47-6	0.025
489	N-[(Perfluorooctyl)sulfonyl]glycine potassium salt (1:1)*	75260-69-4	0.025
490	N-[(Perfluorooctyl)sulfonyl]glycine sodium salt (1:1)*	115716-87-5	0.025
491	Nonacosafuoropentadecanoate*	1214264-29-5	0.025
492	Triethylammonium perfluoropentane sulfonate	72033-42-2	0.025
493	Perfluoropentane sulfonic anhydride	161877-72-1	0.025
494	Doubly (trifluoromethanesulfonyl)imide (TFSI) and its salts	82113-65-3	0.025
495	Trifluoroacetate / Trifluoroacetic acid anion(TFA anion)	14477-72-6	0.025
496	Dimethyl[(trifluoroacetyl)oxy]sulfanium trifluoroacetate*	57738-66-6	0.025
497	Aluminium tris(trifluoroacetate)(TFA-Al)*	36554-89-9	0.025
498	Barium bis(trifluoroacetate)(TFA-Ba)*	60884-92-6	0.025
499	Erbium tris(trifluoroacetate)(TFA-Er)*	70236-99-6	0.025
500	Indium trifluoroacetate(TFA-In)*	36554-90-2	0.025
501	Lanthanum tris(trifluoroacetate)(TFA-La)*	70236-92-9	0.025
502	Nickel(2+) trifluoroacetate(TFA-Ni)*	16083-14-0	0.025
503	Lead(II) trifluoroacetate(TFA-Pb)*	4146-73-0	0.025
504	Acetic acid, trifluoro-, rhodium(2+) salt(TFA-Rh)*	72654-51-4	0.025
505	Thulium tris(trifluoroacetate)(TFA-Tm)*	70237-00-2	0.025
506	Ytterbium(3+) tris(trifluoroacetate)(TFA-Yb)*	87863-62-5	0.025
507	Zinc bis(trifluoroacetate)(TFA-Zn)*	21907-47-1	0.025
508	Ruthenium(II) 2,2,2-trifluoroacetate(TFA-Ru)*	61612-84-8	0.025
509	Magnesium 2,2,2-trifluoroacetate(TFA-Mg)*	123333-72-2	0.025
510	Copper(2+) trifluoroacetate(TFA-Cu)*	123333-88-0	0.025
511	Trifluoromethane sulfonic acid Sodium salt (TFMS-Na)*	2926-30-9	0.025
512	Silver trifluoromethanesulfonate (TFMS-Ag)*	2923-28-6	0.025
513	Zinc trifluoromethanesulfonate (TFMS-Zn)*	54010-75-2	0.025
514	Scandium trifluoromethanesulfonate (TFMS-Sc)*	144026-79-9	0.025
515	Trifluoromethanesulfonic anhydride*	358-23-6	0.025
516	Lithium trifluoromethanesulfonate (TFMS-Li)*	33454-82-9	0.025
517	Copper(II) trifluoromethanesulfonate (TFMS-Cu)*	34946-82-2	0.025
518	Barium trifluoromethanesulfonate (TFMS-Ba)*	2794-60-7	0.025
519	Cerium(IV) trifluoromethanesulfonate (TFMS-Ce)*	107792-63-2	0.025
520	Magnesium trifluoromethanesulfonate (TFMS-Mg)*	60871-83-2	0.025
521	Potassium trifluoromethanesulfonate (TFMS-K)*	2926-27-4	0.025
522	Nickel(II) Trifluoromethanesulfonate (TFMS-Ni)*	60871-84-3	0.025

No.	Substance Name	CAS No.	MDL
523	Tin(II) trifluoromethanesulfonate (TFMS-Sn)*	62086-04-8	0.025
524	Yttrium(III) trifluoromethanesulfonate (TFMS-Y)*	52093-30-8	0.025
525	Iron(III) trifluoromethanesulfonate (TFMS-Fe)*	63295-48-7	0.025
526	Cerium(III) Trifluoromethanesulfonate (TFMS-Ce)*	76089-77-5	0.025
527	Tetrabutylammonium trifluoromethanesulfonate*	35895-70-6	0.025
528	Methyltriocetyl ammonium trifluoromethanesulfonate*	121107-18-4	0.025
529	Imidazole trifluoromethanesulfonate*	29727-06-8	0.025
530	Trifluoroacetyl Trifluoromethanesulfonate*	68602-57-3	0.025
531	Lanthanum(III) trifluoromethanesulfonate(TFMS-La)*	52093-26-2	0.025
532	Indium(III) trifluoromethanesulfonate(TFMS-In)*	128008-30-0	0.025
533	Samarium(III) trifluoromethanesulfonate(TFMS-Sm)*	52093-28-4	0.025
534	Ytterbium(III) trifluoromethanesulfonate(TFMS-Yb)*	54761-04-5	0.025
535	Thulium(III) trifluoromethanesulfonate(TFMS-Tm)*	141478-68-4	0.025
536	Tetraethylammonium trifluoromethanesulfonate*	35895-69-3	0.025
537	1-Fluoro-3,5-dichloropyridinium triflate*	107264-06-2	0.025
538	Triethylamine salt of trifluoromethanesulfonic acid*	646-58-2	0.025
539	Triphenylphosphonium anhydride triflate*	72450-51-2	0.025
540	N,N-Diethyl-6-(diethylamino)-9-(2-(methoxycarbonyl)phenyl)-3H-xanthen e-3-ylideneammonium trifluoromethanesulfonate*	120611-30-5	0.025
541	Diphenylammonium Trifluoromethanesulfonate*	164411-06-7	0.025
542	1-(3-aminoazetidin-1-yl)prop-2-en-1-one, trifluoromethanesulfonic acid*	2060047-56-3	0.025
543	Guanidine trifluoromethanesulfonic acid*	153756-25-3	0.025
544	Trifluoromethanesulfonic acid--1-ethyl-1H-imidazole (1/1)*	501693-46-5	0.025
545	Ruthenium(3+), (OC-6-22)-, salt with trifluoromethanesulfonic acid (1:3)*	74468-24-9	0.025
546	O-Pivaloylhydroxylamine trifluoromethanesulfonate*	1293990-73-4	0.025
547	Trifluoromethanesulfonyl chloride*	421-83-0	0.025
548	(2-Pyridylmethyl)sulfonyl chloride triflate*	882564-09-2	0.025
549	Trifluoromethanesulfonyl bromide*	15458-53-4	0.025
550	Mercury(II) trifluoromethanesulfonate(TFMS-Hg)*	49540-00-3	0.025

Remark:

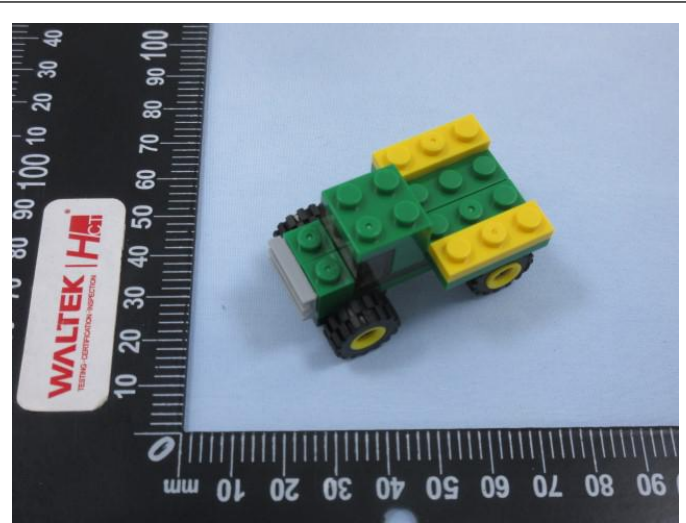
*=Result(s) shown of the substance(s) is/ are converted from the result(s) of certain compound(s).

Report No.:WTH25H04095974R29C

The photo of the sample



WTH25H04095974C~75C.5



WTH25H04095974C~75C.11



WTH25H04095974C~75C.5,11



WTH25H04095974C~75C.5,11

Statement:

1. This report is considered invalid without approved signature and special seal.
2. The Applicant name and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which HCT hasn't verified.
3. The result(s)(conclusion) shown in this report refer(s) only to the sample(s) tested.
4. Without written approval of HCT, this report can't be reproduced except in full.
5. The result(s) in no CMA logo report shall only be used for client's scientific research, teaching, internal quality control, product research and development, etc..and just for internal reference.

6. The “n” in CNAS logo report means that the test item(s) was (were) currently not applying for CNAS accreditation.
7. Decision rules used in this report:
 - (1)According to the Decision rules in the regulations/standards listed in the Test Requested;
 - (2)If there is no Decision rules specified in the regulations listed in the Test Requested, then according to CNAS-GL015 Guidelines on Decision Rules and Statements of Conformity, 6.2.1, Simple Acceptance (w=0) of The binary Decision rule:
PASS (Accepted) - The measured value is within the tolerance interval.
FAIL (Rejected) - The measured value is outside the tolerance interval.

===== End of Report =====