

evolution to heat must be prepared for transport so as to prevent:

- (a) a short circuit (e.g. in the case of batteries by the effective insulation of exposed terminals; or in the case of equipment, by disconnection of the battery and protection of exposed terminals); and
 - (b) unintentional activation.
- △ **A165** This entry may only be used if the results of Test Series 6(d) of Part I of the UN Manual of Tests and Criteria have demonstrated that any hazardous effects arising from functioning are confined within the package (see 3.1.4.3).
- **A166** (343) This entry applies to crude oil containing hydrogen sulphide in sufficient concentration that vapours evolved from the crude oil can present an inhalation hazard. The packing group assigned must be determined by the flammability hazard and inhalation hazard, in accordance with the degree of danger presented.
- **A167** (344) The provisions of 6.4.4 must be met.
- **A168** Not used.
- **A169** (349) Mixtures of a hypochlorite with an ammonium salt are forbidden for transport. UN 1791 Hypochlorite solution is a substance of Class 8.
- **A170** (350) Ammonium bromate and its aqueous solutions and mixtures of a bromate with an ammonium salt are forbidden for transport.
- **A171** (351) Ammonium chlorate and its aqueous solutions and mixtures of a chlorate with an ammonium salt are forbidden for transport.
- **A172** (352) Ammonium chlorite and its aqueous solutions and mixtures of a chlorite with an ammonium salt are forbidden for transport.
- **A173** (353) Ammonium permanganate and its aqueous solutions and mixtures of a permanganate with an ammonium salt are forbidden for transport.
- **A174** (354) This substance is toxic by inhalation.
- **A175** (355) Oxygen cylinders for emergency use transported under this entry may include installed actuating cartridges (cartridges, power device of Division 1.4, Compatibility Group C or S), without changing the classification of Division 2.2 provided the total quantity of deflagrating (propellant) explosives does not exceed 3.2 g per oxygen cylinder. The cylinders with the installed actuating cartridges as prepared for transport must have an effective means of preventing inadvertent activation.
- **A176** (356) Metal hydride storage system(s) installed in conveyances or in completed conveyance components or intended to be installed in conveyances must be approved by the appropriate national authority before acceptance for transport. The Shipper's Declaration must include an indication that the package was approved by the appropriate national authority or a copy of the approval must accompany each consignment.
- **A177** (357) Petroleum crude oil containing hydrogen sulphide in sufficient concentration that vapours evolved from the crude oil can present an inhalation hazard must be consigned under the entry UN 3494 Petroleum sour crude oil, flammable, toxic.

- **A178** Security type equipment such as attaché cases, cash boxes, cash bags, etc., incorporating dangerous goods, for example lithium batteries, gas cartridges and/or pyrotechnic material, are not subject to these Regulations if the equipment complies with the following:
- (a) the equipment must be equipped with an effective means of preventing accidental activation;
 - (b) if the equipment contains an explosive or pyrotechnic substance or an explosive article, this article or substance must be excluded from Class 1 by the appropriate national authority of the State of Manufacture in compliance with 3.1.7.1;
 - (c) if the equipment contains lithium cells or batteries, these cells or batteries must comply with the following restrictions:
 1. for a lithium metal cell, the lithium content is not more than 1 g;
 2. for a lithium metal or lithium alloy battery, the aggregate lithium content is not more than 2 g;
 3. for lithium ion cells, the Watt-hour rating is not more than 20 Wh;
 4. for lithium ion batteries, the Watt-hour rating is not more than 100 Wh;
 5. each cell or battery is of the type proven to meet the requirements of each test in the UN Manual of Tests and Criteria, Part III, section 38.3;
 - (d) if the equipment contains gases to expel dye or ink, only gas cartridges and receptacles, small, containing gas with a capacity not exceeding 50 mL, containing no constituents subject to these Regulations other than a Division 2.2 gas, are allowed. The release of gas must not cause extreme annoyance or discomfort to crew members so as to prevent the correct performance of assigned duties. In case of accidental activation all hazardous effects must be confined within the equipment and must not produce extreme noise.
 - (e) security type equipment that is defective or that has been damaged is forbidden for transport.

The words "not restricted" and the special provision number must be included in the description of the substance on the Air Waybill as required by 8.2.6, when an Air Waybill is issued.

- **A179** For UN 3077, irrespective of the maximum net quantities specified in Columns J and L of Table 4.2, intermediate bulk containers (IBCs) with a maximum net quantity not exceeding 1 000 kg are permitted in accordance with Packing Instruction 956.
- **A180** Non-infectious specimens, such as specimens of mammals, birds, amphibians, reptiles, fish, insects and other invertebrates containing small quantities of UN 1170, UN 1198, UN 1987, or UN 1219 are not subject to these Regulations provided the following packing and marking requirements are met:
- (a) specimens are:
 1. wrapped in paper towel and/or cheesecloth moistened with alcohol or an alcohol solution and then placed in a plastic bag that is heat-sealed. Any free liquid in the bag must not exceed 30 mL; or

2. placed in vials or other rigid containers with no more than 30 mL of alcohol or an alcohol solution;

(b) the prepared specimens are then placed in a plastic bag that is then heat-sealed;

(c) the bagged specimens are then placed inside another plastic bag with absorbent material then heat sealed;

(d) the finished bag is then placed in a strong outer packaging with suitable cushioning material;

(e) the total quantity of flammable liquid per outer packaging must not exceed 1 L; and

(f) the completed package is marked "scientific research specimens, not restricted Special Provision A180 applies".

The words "not restricted" and the special provision number A180 must be included in the description of the substance on the Air Waybill as required by 8.2.6, when an Air Waybill is issued.

- **A181** When a package contains a combination of lithium batteries contained in equipment and lithium batteries packed with equipment, the package must be marked UN 3091 Lithium metal batteries packed with equipment, or UN 3481 Lithium ion batteries packed with equipment as appropriate. If a package contains both lithium ion batteries and lithium metal batteries, the package must be marked as required for both battery types. However, button cell batteries installed in equipment (including circuit boards) need not be considered.
- **A182** Equipment containing only lithium batteries must be classified as either UN 3091 or UN 3481.
- **A183** Waste batteries and batteries being shipped for recycling or disposal are prohibited from air transport unless approved by the appropriate national authority of the State of Origin and the State of the Operator.

A202 For the purposes of providing life support for aquatic animals during transport, the appropriate authorities of the States of origin, destination and of the operator may approve the carriage of a cylinder containing **Oxygen compressed**, UN 1072, with the valves open to supply a controlled quantity of oxygen through a regulator into water containing the aquatic animals. The cylinder or cylinder valve must be fitted with a self-sealing device to prevent uncontrolled release of oxygen should the regulator malfunction or be broken or damaged. The oxygen cylinder must meet those parts of Packing Instruction 200 that apply, except for the need for valves to be closed. In addition, the following conditions apply as a minimum:

(a) the water container with the attached oxygen cylinder must be designed and constructed to withstand all anticipated loads;

- (b) the water container with the oxygen supply operating must be tilt-tested at an angle of 45° in four directions from the upright, for a minimum duration of 10 minutes in each direction, without leakage of water;
- (c) the oxygen cylinder and regulator must be restrained and protected within the equipment;
- (d) the oxygen regulator used must have a maximum flow rate of not more than 5 L per minute;
- (e) the oxygen flow rate to the container must be limited to that sufficient to provide life support to the aquatic animals;
- (f) the quantity of oxygen provided must not exceed 150% of the oxygen required for the normal duration of air transport; and
- (g) only one cylinder may be carried for each 15 m³ of gross cargo hold volume. Under no circumstances may the rate of oxygen flow from the cylinder exceed 1 L per minute per 5 m³ of gross cargo hold volume.

A224 For the purpose of transporting a symbolic flame, the appropriate authority of the States of origin, of destination and of the operator may approve the carriage of lamps fuelled by UN 1223 — **Kerosene**, or UN 3295 — **Hydrocarbons, liquid, n.o.s.**, carried by a passenger as carry on baggage only.

Lamps must be of a "Davy" type or similar apparatus. In addition, the following conditions apply as a minimum:

- (a) no more than four lamps may be carried on board the aircraft;
- (b) lamps may contain no more fuel than the quantity adequate for the duration of the flight and the fuel must be contained in a leakproof reservoir;
- (c) lamps must be adequately secured;
- (d) whilst on board the aircraft, the lamps must be under the constant supervision of an accompanying person, who must not be a member of the operating crew;
- (e) lamps may be lit by the accompanying person, but must not be refilled on board the aircraft;
- (f) at least one fire extinguisher must be kept within reach of the accompanying person at all times. The accompanying person must be trained in the use of the extinguisher;
- (g) the crew members of the aircraft must be given a verbal briefing about the carriage of the lamps and the pilot-in-command must be provided with a copy of the approval; and
- (h) 9.5.1.1(b), c), e), 9.5.1.2, 9.5.1.3 and 9.6.1 of these Regulations must apply.

A801 A technical name is not needed for this entry if it is a controlled substance and a national law or international Convention prohibits its disclosure (see 4.1.2.1(d)).

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UN/ ID no.	Proper Shipping Name/Description	Class or Div. (Sub Risk)	Hazard Label(s)	PG	Passenger and Cargo Aircraft				Cargo Aircraft Only		S.P. see 4.4	ERG Code	
					EQ see 2.6	Ltd Qty		Pkg Inst	Max Net Qty/Pkg	Pkg Inst			Max Net Qty/Pkg
						Pkg Inst	Max Net Qty/Pkg						
A	B	C	D	E	F	G	H	I	J	K	L	M	N
0331	Agent, blasting type B †	1.5D				Forbidden		Forbidden		Forbidden			1L
0332	Agent, blasting type E †	1.5D				Forbidden		Forbidden		Forbidden			1L
0503	Air bag inflators †	1.4G	Explosive 1.4		E0	Forbidden		Forbidden		135	75 kg	A32 A56	1L
3268	Air bag inflators †	9	Miscellaneous	III	E0	Forbidden		961	25 kg	961	100 kg	A32 A115 A119	9L
0503	Air bag modules †	1.4G	Explosive 1.4		E0	Forbidden		Forbidden		135	75 kg	A32 A56	1L
3268	Air bag modules †	9	Miscellaneous	III	E0	Forbidden		961	25 kg	961	100 kg	A32 A115 A119	9L
△ 1002	Air, compressed Aircraft, see Vehicle, flammable gas powered † (UN 3166) or Vehicle, flammable liquid powered † (UN 3166) Aircraft engines, see Engine, internal combustion, flammable liquid powered † (UN 3166) Aircraft engines (including turbines), see Engine, internal combustion, flammable gas powered † (UN 3166) or Engine, internal combustion, flammable liquid powered † (UN 3166) Aircraft evacuation slides, see Life-saving appliances, self-inflating (UN 2990)	2.2	Non-flamm. gas		E1	Forbidden		200	75 kg	200	150 kg		2L
3165	Aircraft hydraulic power unit fuel tank (containing a mixture of anhydrous hydrazine and methyl hydrazine) (M86 fuel) Aircraft survival kits, see Life-saving appliances, self-inflating (UN 2990) or Life-saving appliances, not self-inflating (UN 3072)	3 (6.1, 8)	Flamm. liquid & Toxic & Corrosive	I	E0	Forbidden		Forbidden		372	42 L	A1 A48	3CP
1003	Air, refrigerated liquid	2.2 (5.1)	Non-flamm. gas & Cryogenic liquid & Oxidizer		E0	Forbidden		Forbidden		202	150 kg	A1	2X
3274	Alcoholates solution, n.o.s. ★ in alcohol Alcohol, denatured, see Alcohols, flammable, toxic, n.o.s. ★ (UN 1986) or Alcohols, n.o.s. ★ (UN 1987)	3 (8)	Flamm. liquid & Corrosive	II	E2	Y340	0.5 L	352	1 L	363	5 L		3C
3065	Alcoholic beverages containing 70% or less but more than 24% of alcohol by volume, in receptacles, each having capacities of more than 5 Litres	3	Flamm. liquid	III	E1	Y344	10 L	355	60 L	366	220 L	A9 A58	3L
3065	Alcoholic beverages containing more than 70% alcohol by volume Alcoholic beverages, containing 24% or less alcohol by volume Alcoholic beverages, containing 70% or less alcohol by volume, in receptacles, each having capacities of 5 Litres or less Alcohol, industrial, see Alcohols, flammable, toxic, n.o.s. ★ (UN 1986) or Alcohols, n.o.s. ★ (UN 1987)	3	Flamm. liquid	II	E2	Y341	1 L	353	5 L	364	60 L		3L
						Not Restricted		Not Restricted		Not Restricted			
						Not Restricted		Not Restricted		Not Restricted			
△ 1987	Alcohols, n.o.s. ★	3	Flamm. liquid	II III	E2 E1	Y341 Y344	1 L 10 L	353 355	5 L 60 L	364 366	60 L 220 L	A3 A180	3L 3L

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					EQ see 2.6	Ltd Qty		Pkg Inst	Max Net Qty/Pkg	Pkg Inst			Max Net Qty/Pkg	Pkg Inst	Max Net Qty/Pkg
						Pkg Inst	Max Net Qty/Pkg								
A	B	C	D	E	F	G	H	I	J	K	L	M	N		
1035	Ethane	2.1	Flamm. gas		E0	Forbidden		Forbidden		200	150 kg	A1	10L		
1961	Ethane, refrigerated liquid Ethanethiol, see Ethyl mercaptan (UN 2363)	2.1				Forbidden		Forbidden		Forbidden			10L		
△ 1170	Ethanol	3	Flamm. liquid	II III	E2 E1	Y341 Y344	1 L 10 L	353 355	5 L 60 L	364 366	60 L 220 L	A3 A58 A180	3L 3L		
2491	Ethanolamine Ethanol amine dinitrate	8	Corrosive	III	E1	Y841	1 L	852	5 L	856	60 L	A3	8L		
2491	Ethanolamine solution	8	Corrosive	III	E1	Y841	1 L	852	5 L	856	60 L	A3	8L		
3475	Ethanol and gasoline mixture with more than 10% ethanol	3	Flamm. liquid	II	E2	Y341	1 L	353	5 L	364	60 L	A156	3L		
3475	Ethanol and motor spirit mixture with more than 10% ethanol	3	Flamm. liquid	II	E2	Y341	1 L	353	5 L	364	60 L	A156	3L		
3475	Ethanol and petrol mixture with more than 10% ethanol Ethanol aqueous solutions containing 24% or less alcohol by volume	3	Flamm. liquid	II	E2	Y341	1 L	353	5 L	364	60 L	A156	3L		
△ 1170	Ethanol solution Ether, see Diethyl ether (UN 1155) Ether acetate, see Ethylene glycol monoethyl ether acetate (UN 1172) Ether, ethyl, see Diethyl ether (UN 1155)	3	Flamm. liquid	II III	E2 E1	Y341 Y344	1 L 10 L	353 355	5 L 60 L	364 366	60 L 220 L	A3 A58 A180	3L 3L		
3271	Ethers, n.o.s. * 2-Ethoxyethanol, see Ethylene glycol monoethyl ether (UN 1171) 2-Ethoxyethyl acetate, see Ethylene glycol monoethyl ether acetate (UN 1172) Ethoxypropane-1, see Ethyl propyl ether (UN 2615)	3	Flamm. liquid	II III	E2 E1	Y341 Y344	1 L 10 L	353 355	5 L 60 L	364 366	60 L 220 L	A3	3L 3L		
1173	Ethyl acetate	3	Flamm. liquid	II	E2	Y341	1 L	353	5 L	364	60 L		3L		
2452	Ethylacetylene, stabilized Ethylacetylene, unstabilized	2.1	Flamm. gas		E0	Forbidden		Forbidden		200	150 kg	A1	10L		
1917	Ethyl acrylate, stabilized Ethyl acrylate, unstabilized	3	Flamm. liquid	II	E2	Y341	1 L	353	5 L	364	60 L		3I		
△ 1170	Ethyl alcohol	3	Flamm. liquid	II III	E2 E1	Y341 Y344	1 L 10 L	353 355	5 L 60 L	364 366	60 L 220 L	A3 A58 A180	3L 3L		
△ 1170	Ethyl alcohol solution Ethyl aldehyde, see Acetaldehyde (UN 1089)	3	Flamm. liquid	II III	E2 E1	Y341 Y344	1 L 10 L	353 355	5 L 60 L	364 366	60 L 220 L	A3 A58 A180	3L 3L		
1036	Ethylamine	2.1	Flamm. gas		E0	Forbidden		Forbidden		200	150 kg	A1	10L		
2270	Ethylamine, aqueous solution with 50% or more but not more than 70% ethylamine	3 (8)	Flamm. liquid & Corrosive	II	E2	Y340	0.5 L	352	1 L	363	5 L		3CH		

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					EQ see 2.6	Ltd Qty		Pkg Inst	Max Net Qty/Pkg	Pkg Inst			Max Net Qty/Pkg
						Pkg Inst	Max Net Qty/Pkg						
A	B	C	D	E	F	G	H	I	J	K	L	M	N
2388	Fluorotoluenes	3	Flamm. liquid	II	E2	Y341	1 L	353	5 L	364	60 L		3L
2209	Formaldehyde solution with not less than 25% formaldehyde	8	Corrosive	III	E1	Y841	1 L	852	5 L	856	60 L		8i
1198	Formaldehyde solution, flammable	3 (8)	Flamm. liquid & Corrosive	III	E1	Y342	1 L	354	5 L	365	60 L	A180	3C
	Formaldehyde solution with ≥ 10% but < 25% formaldehyde, see Aviation regulated liquid, n.o.s. ★ † (UN 3334)												
	Formalin, see Formaldehyde solution, flammable (UN 1198) or Formaldehyde solution (UN 2209)												
	Formamidine sulphinic acid, see Thiourea dioxide (UN 3341)												
3412	Formic acid with ≥ 10% but ≤ 85% acid by weight	8	Corrosive	II	E2	Y840	0.5 L	851	1 L	855	30 L		8L
3412	Formic acid with ≥ 5% but < 10% acid by weight	8	Corrosive	III	E1	Y841	1 L	852	5 L	856	60 L		8L
1779	Formic acid with more than 85% acid by weight	8 (3)	Corrosive & Flamm. liquid	II	E2	Y840	0.5 L	851	1 L	855	30 L		8F
	Formic aldehyde, see Formaldehyde solution, flammable (UN 1198) or Formaldehyde solution (UN 2209)												
	Formic ether, see Ethyl formate (UN 1190)												
	2-Formyl-3,4-dihydro-2H-pyran, see Acrolein dimer, stabilized (UN 2607)												
△ 0099	Fracturing devices, explosive, † without detonator for oil wells	1.1D				Forbidden		Forbidden		Forbidden		A2	1L
	Freon, see appropriate chemical name or see listing under the appropriate "Refrigerant gas" proper shipping name												
1863	Fuel, aviation, turbine engine	3	Flamm. liquid	I II III	E3 E2 E1	Forbidden Y341 Y344	Forbidden 1 L 10 L	351 353 355	1 L 5 L 60 L	361 364 366	30 L 60 L 220 L	A3	3L 3L 3L
△ 3479	Fuel cell cartridges † containing hydrogen in metal hydride	2.1	Flamm. gas		E0	Y215	0.5 kg	215	1 kg	215	15 kg	A146 A162	10L
△ 3473	Fuel cell cartridges † containing flammable liquids	3	Flamm. liquid		E0	Y374	2.5 kg	374	5 kg	374	50 kg	A146	3L
3477	Fuel cell cartridges contained in equipment † containing corrosive substances	8	Corrosive		E0	Forbidden		874	5 kg	874	50 kg	A146 A157	8L
3473	Fuel cell cartridges contained in equipment † containing flammable liquids	3	Flamm. liquid		E0	Forbidden		375	5 kg	375	50 kg	A146	3L
3479	Fuel cell cartridges contained in equipment † containing hydrogen in metal hydride	2.1	Flamm. gas		E0	Forbidden		216	1 kg	216	15 kg	A146 A162	10L
3478	Fuel cell cartridges contained in equipment † containing liquefied flammable gas	2.1	Flamm. gas		E0	Forbidden		216	1 kg	216	15 kg	A146 A161	10L
3476	Fuel cell cartridges contained in equipment † containing water reactive substances	4.3	Dang. when wet		E0	Forbidden		496	5 kg	496	50 kg	A146 A157	4W
△ 3477	Fuel cell cartridges † containing corrosive substances	8	Corrosive		E0	Y873	2.5 kg	873	5 kg	873	50 kg	A146 A157	8L
△ 3478	Fuel cell cartridges † containing liquefied flammable gas	2.1	Flamm. gas		E0	Y215	0.5 kg	215	1 kg	215	15 kg	A146 A161	10L
△ 3476	Fuel cell cartridges † containing water reactive substances	4.3	Dang. when wet		E0	Y495	2.5 kg	495	5 kg	495	50 kg	A146 A157	4W

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F

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						Ltd Qty		Pkg Inst	Max Net Qty/Pkg	Pkg Inst	Max Net Qty/Pkg			Pkg Inst	Max Net Qty/Pkg
						G	H								
A	B	C	D	E	F	G	H	I	J	K	L	M	N		
2371	Isopentenes Isopentylamine, see Amylamine (UN 1106) Isopentyl nitrite, see Amyl nitrite (UN 1113)	3	Flamm. liquid	I	E3	Forbidden		351	1 L	361	30 L		3H		
2289	Isophoronediamine	8	Corrosive	III	E1	Y841	1 L	852	5 L	856	60 L		8L		
2290	Isophorone diisocyanate	6.1	Toxic	III	E1	Y642	2 L	655	60 L	663	220 L		6L		
1218	Isoprene, stabilized Isoprene, unstabilized	3	Flamm. liquid	I	E3	Forbidden		351	1 L	361	30 L		3H		
△ 1219	Isopropanol	3	Flamm. liquid	II	E2	Y341	1 L	353	5 L	364	60 L	A180	3L		
2403	Isopropenyl acetate	3	Flamm. liquid	II	E2	Y341	1 L	353	5 L	364	60 L		3L		
2303	Isopropenylbenzene	3	Flamm. liquid	III	E1	Y344	10 L	355	60 L	366	220 L		3L		
1220	Isopropyl acetate	3	Flamm. liquid	II	E2	Y341	1 L	353	5 L	364	60 L		3L		
1793	Isopropyl acid phosphate	8	Corrosive	III	E1	Y845	5 kg	860	25 kg	864	100 kg		8L		
△ 1219	Isopropyl alcohol	3	Flamm. liquid	II	E2	Y341	1 L	353	5 L	364	60 L	A180	3L		
1221	Isopropylamine	3 (8)	Flamm. liquid & Corrosive	I	E0	Forbidden		350	0.5 L	360	2.5 L		3CH		
1918	Isopropylbenzene Isopropyl bromide, see Bromopropanes (UN 2344) Isopropyl sec-butyl peroxydicarbonate, not more than 52%, with di-sec-butyl peroxydicarbonate, not more than 28%, with di-isopropyl peroxydicarbonate, not more than 22%	3	Flamm. liquid	III	E1	Y344	10 L	355	60 L	366	220 L		3L		
2405	Isopropyl butyrate Isopropyl chloride, see 2-Chloropropane (UN 2356)	3	Flamm. liquid	III	E1	Y344	10 L	355	60 L	366	220 L		3L		
2947	Isopropyl chloroacetate	3	Flamm. liquid	III	E1	Y344	10 L	355	60 L	366	220 L		3L		
2407	Isopropyl chloroformate Isopropyl-alpha-chloropropionate, see Isopropyl 2-chloropropionate (UN 2934)	6.1 (3, 8)				Forbidden		Forbidden		Forbidden		A2	6CF		
2934	Isopropyl 2-chloropropionate Isopropylcumyl hydroperoxide, more than 72% in solution Isopropyl ether, see Diisopropyl ether (UN 1159) Isopropylethylene, see 3-Methyl-1-butene (UN 2561) Isopropyl formate, see Propyl formates (UN 1281)	3	Flamm. liquid	III	E1	Y344	10 L	355	60 L	366	220 L		3L		
2406	Isopropyl isobutyrate	3	Flamm. liquid	II	E2	Y341	1 L	353	5 L	364	60 L		3L		
△ 2483	Isopropyl isocyanate Isopropyl mercaptan, see Propanethiols (UN 2402)	6.1 (3)				Forbidden		Forbidden		Forbidden		A174	6F		
1222	Isopropyl nitrate Isopropyl phosphoric acid, see Isopropyl acid phosphate (UN 1793)	3	Flamm. liquid	II	E2	Y341	1 L	353	5 L	364	60 L		3L		