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INLAND TRANSPORT COMMITTEE

Working Party on the Transport  
of Dangerous Goods

Joint Meeting of the RID Safety Committee  
and the Working Party on the Transport of  
Dangerous Goods  
(Bern, 2-6 October, 1995)

CLASS 6.1. TOXIC SUBSTANCES\*

Note by the secretariat

The secretariat has prepared a list of amendments to be made to RID/ADR in order to take account of the decisions concerning Class 6.1 taken by the Committee of Experts on the Transport of Dangerous Goods of the Economic and Social Council at its eighteenth session (28 November-7 December 1994) (see ST/SG/AC.10/21/Add.1 to -/Add.3).

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GE.95-22855 (E)

600/

- 2600 (3) 2. In the table, replace the reference to footnote "2/" and the existing footnote "2/" by "3". Insert a reference to a new footnote "2/" in the headings of the third and fourth columns (e.g., the heading of the third column will be "Oral toxicity LD<sub>50</sub> (mg/kg) 2/" and insert a new footnote "2", as follows:

"2/ LD<sub>50</sub> toxicity data for a number of common pesticides may be obtained from the most current edition of the document The WHO Recommended Classification of Pesticides by Hazard and Guidelines to Classification available from the International Programme on Chemical Safety, World Health Organization (WHO), 1211 Geneva 27, Switzerland. While that document may be used as a source of LD<sub>50</sub> data for pesticides, its classification system should not be used for purposes of transport classification of, or assignment of packing groups to, pesticides, which should be in accordance with the requirements of ADR."

- 2.5 Second sentence, replace as follows:

"A solid substance should be tested if at least 10% of its total mass is likely to be dust in a respirable range, e.g. the aerodynamic diameter of that particle-fraction is 10 microns or less. A liquid substance should be tested if a mist is likely to be generated in a leakage of the transport containment. Both for solid and liquid substances more than 90% (by mass) of a specimen prepared for inhalation toxicity should be in the respirable range as defined above."

End of (3), add:

"Methods for determining oral and dermal toxicity of mixtures"

5. When classifying and assigning the appropriate packing group to mixtures in Division 6.1 in accordance with the oral and dermal toxicity criteria (2.3 and 2.4 above), it is necessary to determine the acute LD<sub>50</sub> of the mixture.
- 5.1 If a mixture contains only one active substance, and the LD<sub>50</sub> of that constituent is known, in the absence of reliable acute oral and dermal toxicity data on the actual mixture to be transported, the oral or dermal LD<sub>50</sub> may be obtained by the following method:

$$LD_{50} \text{ value of preparation} = \frac{LD_{50} \text{ value of active substance} \times 100}{\text{percentage of active substance by mass}}$$

5.2 If a mixture contains more than one active constituent, there are three possible approaches that may be used to determine the oral or dermal LD<sub>50</sub> of the mixture. The preferred method is to obtain reliable acute oral and dermal toxicity data on the actual mixture to be transported. If reliable, accurate data is not available, then either of the following methods may be performed:

(a) Classify the formulation according to the most hazardous constituent of the mixture as if that constituent were present in the same concentration as the total concentration of all active constituents; or

(b) Apply the formula:

$$\frac{C_A}{T_A} + \frac{C_B}{T_B} + \frac{C_Z}{C_Z} = \frac{100}{T_M}$$

where: C = the percentage concentration of  
constituent A, B, ... Z in the mixture

T = the oral LD<sub>50</sub> values of  
constituent A, B, ... Z

T<sub>M</sub> = the oral LD<sub>50</sub> value of the mixture.

NOTE: This formula can also be used for dermal toxicities provided that this information is available on the same species for all constituents. The use of this formula does not take into account any potentiation or protective phenomena."

601/

2601 8° (a) Present text, number as 1.

Add:

"2. 1251 methyl vinyl ketone, stabilized".

9° (a) Add:

"2295 methyl chloroacetate  
2477 methyl isothiocyanate"

10° (a) Add: "1695 chloroacetone, stabilized".

11° (b) Entry 3073, delete.

- 12° (b) Entry 2522, amend to read:  
"2522 2-dimethylaminoethyl methacrylate".  
Add:  
"2542 tributylamine"  
"3302 2-dimethylaminoethyl acrylate".
- 13° Add:  
"(b) 1199 furaldehydes".
- 14° (c) Items 2369 and 2938, delete.
- 15° (a) Add:  
"2644 methyl iodide".
- 15° (b) Entry 2644, delete.
- 16° (b) "2295 methyl chloroacetate", delete.
- 17° (a), (b) and (c): entry 1610, delete.
- 17° (a) Add: "1809 phosphorus trichloride".
- 17° (b) Entry 1695, delete.
- 17° (c) Entry 3241, delete.
- 18° (a) Add:  
"2487 phenyl isocyanate"  
"2488 cyclohexyl isocyanate".
- 18° (b) Items 2487 and 2488, delete.
- 19° (c) Entry 2489, delete.
- 20° (a) Insert the following entry:  
"3023 2-methyl-2-heptanethiol".
- 20° (b) Entries 2477 and 3023, delete.
- 28° Heading, amend to read:  
"28° Flammable corrosive toxic substances".
- 28° (b) Add: "3073 vinylpyridines, inhibited".

51° (a), (b) and (c) In entries 1556 and 1557, insert ", inorganic" after "n.o.s.".

55° (c) Entry 2658, delete.

67° (a) Add "1809 phosphorus trichloride".

F. Section F, replace as follows:

"F. Substances and preparations used as pesticides

71° Pesticides, liquid, toxic,

72° Pesticides, liquid, toxic, flammable,

73° Pesticides, solid, toxic.

In these items, substances and preparations used as pesticides must be classified under letters (a), (b) or (c) in conformity with the criteria of marginal 600/2600 (3) as follows:

(a) highly toxic substances and preparations,

(b) toxic substances and preparations,

(c) slightly toxic substances and preparations.

The table which follows contains a list of common pesticides and a reference to the identification numbers assigned to the proper shipping names that are relevant to the generic chemical group (e.g., organophosphorus pesticides) to which the particular pesticide belongs. The proper shipping name used in the transport of the pesticide should be selected from those referenced on the basis of the active ingredient, of the physical state of the pesticide and any subsidiary risks it may exhibit.

NOTE 1: Flammable liquid substances and preparations, used as pesticides, which are highly toxic, toxic or harmful and have a flash-point below 23° C, are substances of Class 3 (see marginal 301/2301, 41°).

2: (a) Articles impregnated with substances and preparations used as pesticides of 71° to 73°, such as fibreboard plates, paper strips, cotton-wool balls, sheets of plastics material, etc., in airtight, hermetically closed wrappings, are not subject to the provisions of RID/ADR.

- (b) Substances such as baits and cereals impregnated with substances and preparations used as pesticides of 71° to 73° or other substances of Class 6.1 shall be classified according to their toxicity (see marginal 600/2600 (3)).

71° Pesticides, liquid, toxic:

2992 carbamate pesticide, liquid, toxic,  
2994 arsenical pesticide, liquid, toxic,  
2996 organochlorine pesticide, liquid, toxic,  
2998 triazine pesticide, liquid, toxic,  
3000 phenoxy pesticide, liquid, toxic,  
3002 phenyl urea pesticide, liquid, toxic,  
3004 benzoic derivative pesticide, liquid, toxic,  
3006 dithiocarbamate pesticide, liquid, toxic,  
3008 phthalimide derivative pesticide, liquid, toxic,  
3010 copper based pesticide, liquid, toxic,  
3012 mercury based pesticide, liquid, toxic,  
3014 substituted nitrophenol pesticide, liquid, toxic,  
3016 bipyridylium pesticide, liquid, toxic,  
3018 organophosphorous pesticide, liquid, toxic,  
3020 organotin pesticide, liquid, toxic,  
3026 coumarin derivative pesticide, liquid, toxic,  
2902 pesticide, liquid, toxic, n.o.s.

72° Pesticides, liquid, toxic, flammable:

2903 pesticide, liquid, toxic, flammable, flash-point not less than 23°C,  
2991 carbamate pesticide, liquid, toxic, flammable, flash-point not less than 23°C,  
2993 arsenical pesticide, liquid, toxic, flammable, flash-point not less than 23°C,  
2995 organochlorine pesticide, liquid, toxic, flammable, flash-point not less than 23°C,  
2997 triazine pesticide, liquid, toxic, flammable, flash-point not less than 23°C,  
2999 phenoxy pesticide, liquid, toxic, flammable, flash-point not less than 23°C,  
3001 phenyl urea pesticide, liquid, toxic, flammable, flash-point not less than 23°C,  
3003 benzoic derivative pesticide, liquid, toxic, flammable, flash-point not less than 23°C,  
3005 dithiocarbamate pesticide, liquid, toxic, flammable, flash-point not less than 23° C,  
3007 phthalimide derivative pesticide, liquid, toxic, flammable, flash-point not less than 23° C,

3009 copper based pesticide, liquid, toxic, flammable,  
flash-point not less than 23° C,  
3011 mercury based pesticide, liquid, toxic, flammable,  
flash-point not less than 23° C,  
3013 substituted nitrophenol pesticide, liquid, toxic,  
flammable, flash-point not less than 23° C,  
3015 bipyridilium pesticide, liquid, toxic, flammable,  
flash-point not less than 23° C,  
3017 organophosphorus pesticide, liquid, toxic, flammable,  
flash-point not less than 23° C,  
3019 organotin pesticide, liquid, toxic, flammable,  
flash-point not less than 23° C,  
3025 coumarin derivative pesticide, liquid, toxic, flammable,  
flash-point not less than 23° C,

73° Pesticides, solid, toxic:

2757 carbamate pesticide, solid, toxic,  
2759 arsenical pesticide, solid, toxic,  
2761 organochlorine pesticide, solid, toxic,  
2763 triazine pesticide, solid, toxic,  
2765 phenoxy pesticide, solid, toxic,  
2767 phenyl urea pesticide, solid, toxic,  
2769 benzoic derivative pesticide, solid, toxic,  
2771 dithiocarbamate pesticide, solid, toxic,  
2773 phthalimide derivative pesticide, solid, toxic,  
2775 copper based pesticide, solid, toxic,  
2777 mercury based pesticide, solid, toxic,  
2779 substituted nitrophenol pesticide, solid, toxic,  
2781 bipyridilium pesticide, solid, toxic,  
2783 organophosphorous pesticide, solid, toxic,  
2786 organotin pesticide, solid, toxic,  
3027 coumarin derivative pesticide, solid, toxic,  
2588 pesticide, solid, toxic, n.o.s.

Table: LIST OF COMMON PESTICIDES WITH CORRESPONDING IDENTIFICATION NUMBERS

NOTE 1: The identification numbers provide a reference to the relevant proper shipping names.

2: The table contains a list of common pesticides and a reference to the identification numbers assigned to the proper shipping names that are relevant to the generic chemical group (e.g., organophosphorous pesticides) to which the particular pesticide belongs. The proper shipping name used in the transport of the pesticide should be selected from those referenced on the basis of the active ingredient, of the physical state of the pesticide and any subsidiary risks it may exhibit.

Table 6.1: LIST OF COMMON PESTICIDES WITH CORRESPONDING UN NUMBERS

Note: The UN numbers provide a reference to the relevant proper shipping names.

Substance	UN No.
aldicarb	2757,2758,2991,2992
aldrin	2761,2762,2995,2996
alkaloids or alkaloid salts	2588,2902,2903,3021
allidochlor	2761,2762,2995,2996
aminocarb	2757,2758,2991,2992
*/ANTU	2588,2902,2903,3021
*/arsenic compounds	2759,2760,2993,2994
azinthos-ethyl	2783,2784,3017,3018
azinthos-methyl	2783,2784,3017,3018
bendiocarb	2757,2758,2991,2992
benfuracarb	2757,2758,2991,2992
benquinox	2588,2902,2903,3021
binapacryl	2779,2780,3013,3014
*/blasticidin-S-3	2588,2902,2903,3021
*/brodifacoum	3024,3025,3026,3027
bromophos-ethyl	2783,2784,3017,3018
bromoxynil	2588,2902,2903,3021
butocarboxim	2757,2758,2991,2992
camphechlor	2761,2762,2995,2996
carbaryl	2757,2758,2991,2992
carbofuran	2757,2758,2991,2992
carbophenothion	2783,2784,3017,3018
cartap, hydrochloride	2757,2758,2991,2992
chinomethionat	2588,2902,2903,3021



Table 6.1 (continued)

Substance	UN No.
chlordan	2762, 2995, 2996
chlordan	2762, 2995, 2996
chlordan hydrochloride	2762, 2995, 2996
chlorfenvinphos	2783, 2784, 3017, 3018
chlormephos	2783, 2784, 3017, 3018
chlorophacinone	2761, 2762, 2995, 2996
chlorpyrifos	2783, 2784, 3017, 3018
chlorthiophos	2783, 2784, 3017, 3018
copper compounds	2775, 2776, 3009, 3010
coumachlor	3024, 3025, 3026, 3027
coumafuryl	3024, 3025, 3026
coumaphos	3024, 3025, 3026, 3027
coumatetralyl (racumin)	3024, 3025, 3026, 3027
crimidine	2761, 2762, 2995, 2996
crotoxyphos	2783, 2784, 3017, 3018
crufomate	2784, 3017, 3018
cyanazine	2763, 2764, 2997, 2998
cyanophos	2783, 2784, 3017, 3018
cycloheximide	2588, 2902, 2903, 3021
cyhexatin	2786, 2787, 3019, 3020
cypermethrin	2588, 2902, 2903, 3021
2,4-D	2766, 2999, 3000
dazomet	2902, 2903, 3021
*/2,4-DB	2766, 2999, 3000
*/DDT	2761, 2762, 2995, 2996
*/DEF	2784, 3017, 3018
*/demephion	2783, 2784, 3017, 3018
*/demeton	2783, 2784, 3017, 3018
*/demeton-O (systox)	2783, 2784, 3017, 3018
demeton-O-methyl thiono isomer	2783, 2784, 3017, 3018
demeton-S-methyl	2783, 2784, 3017, 3018
*/demeton-S-methyl sulphone	2783, 2784, 3017, 3018
dialifos	2783, 2784, 3017, 3018
di-allate	2588, 2902, 2903, 3021
diazinon	2783, 2784, 3017, 3018
*/1,2-dibromo-3-chloropropane	2761, 2762, 2995, 2996
dichlofenthion	2783, 2784, 3017, 3018

Table 6.1 (continued)

Substance	UN No.
dichlorvos	2783,2784,3017,3018
*/dicoumarol	3024,3025,3026,3027
dicrotophos	2783,2784,3017,3018
dieldrin	2761,2762,2995,2996
*/difenacoum	3024,3025,3026,3027
difenzoquat	2902,2903,3021
dimefox	2783,2784,3017,3018
*/dimetan	2757,2758,2991,2992
*/dimethoate	2783,2784,3017,3018
*/dimetilan	2757,2758,2991,2992
dimexano	2902,2903,3021
dinobuton	2779,2780,3013,3014
dinoseb	2779,2780,3013,3014
dinoseb acetate	2779,2780,3013,3014
dinoterb	2779,2780,3013,3014
dinoterb acetate	2779,2780,3013,3014
dioxacarb	2757,2758,2991,2992
dioxathion	2783,2784,3017,3018
diphacinone	2588,2902,2903,3021
diquat	2782,3015,3016
disulfoton	2783,2784,3017,3018
DNOC	2779,2780,3013,3014
drazoxolon	2588,2902,2903,3021
edifenphos	2783,2784,3017,3018
endosulfan	2761,2762,2995,2996
endothal-sodium	2588,2902,2903,3021
endothion	2783,2784,3017,3018
endrin	2761,2762,2995,2996
*/EPN	2783,2784,3017,3018
ethion	2783,2784,3017,3018
ethoate-methyl	2783,2784,3017,3018
ethoprophos	2783,2784,3017,3018
fenaminosulf	2588,2902,2903,3021
fenaminphos	2783,2784,3017,3018
fenitrothion	2784,3017,3018
fenpropathrin	2588,2902,2903,3021
fensulfothion	2783,2784,3017,3018

Table 6.1 (continued)

Substance	UN No.
fenthion	2783,2784,3017,3018
fentin acetate	2786,2787,3019,3020
fentin hydroxide	2786,2787,3019,3020
*/fluorine compounds	2588,2902,2903,3021
*/fluoroacetamide	2588,2902,2903,3021
fonofos	2783,2784,3017,3018
formetanate	2757,2758,2991,2992
formothion	2784,3017,3018
heptachlor	2761,2762,2995,2996
heptenophos	2783,2784,3017,3018
imazalil	2902,2903,3021
ioxynil	2588,2902,2903,3021
iprobenfos	2784,3017,3018
isobenzan	2761,2762,2995,2996
*/isodrin	2761,2762,2995,2996
isofenphos	2783,2784,3017,3018
*/isolan	2757,2758,2991,2992
isoproc carb	2757,2758,2991,2992
isothioate	2783,2784,3017,3018
isoxathion	2783,2784,3017,3018
*/kelevan	2902,2903,3021
lindane (BHC)	2761,2762,2995,2996
mecarbam	2783,2784,3017,3018
medinoterb	2779,2780,3013,3014
mephosfolan	2783,2784,3017,3018
mercaptodimethur	2757,2758,2991,2992
mercury(II) (mercuric) compounds	2777,2778,3011,3012
mercury (I) (mercurous) compounds	2777,2778,3011,3012
metam-sodium	2771,2772,3005,3006
methamidophos	2783,2784,3017,3018
methasulfocarb	2757,2758,2991,2992
methidathion	2783,2784,3017,3018
methomyl	2757,2758,2991,2992
*/methyltrithion	2783,2784,3017,3018
mevinphos	2783,2784,3017,3018
mexacarbate	2757,2758,2991,2992
*/mirex	2762,2995,2996

Table 6.1 (continued)

Substance	UN No.
<u>*/mobam</u>	2757,2758,2991,2992
monocrotophos	2783,2784,3017,3018
nabam or nabam preparations	2772,3005,3006
naled	2783,2784,3017,3018
<u>*/nicotine compounds</u>	2588,2902,2903,3021
norbormide	2588,2902,2903,3021
omethoate	2783,2784,3017,3018
organotin pesticides	2786,2787,3019,3020
<u>*/oxamyl</u>	2588,2902,2903,3021
oxydemeton-methyl	2783,2784,3017,3018
oxydisulfoton	2783,2784,3017,3018
<u>*/paraoxon</u>	2783,2784,3017,3018
paraquat	2781,2782,3015,3016
parathion	2783,2784,3017,3018
parathion-methyl	2783,2784,3017,3018
<u>*/pentachlorophenol</u>	2761,2762,2995,2996
phenkapton	2783,2784,3017,3018
phenthoate	2783,2784,3017,3018
phorate	2783,2784,3017,3018
phosalone	2783,2784,3017,3018
phosfolan	2783,2784,3017,3018
phosmet	2783,2784,3017,3018
phosphamidon	2783,2784,3017,3018
pindone, and salts of	2902,2903,3021
pirimicarb	2757,2758,2991,2992
pirimiphos-ethyl	2783,2784,3017,3018
promecarb	2757,2758,2991,2992
<u>*/promurit (muritan)</u>	2757,2758,2991,2992
propaphos	2783,2784,3017,3018
propoxur	2757,2758,2991,2992
prothoate	2783,2784,3017,3018
pyrazophos	2784,3017,3018
<u>*/pyrazoxon</u>	2783,2784,3017,3018
quinalphos	2783,2784,3017,3018
<u>*/rotenone</u>	2588,2902,2903,3021
<u>*/salithion</u>	2783,2784,3017,3018
schradan	2783,2784,3017,3018

Table 6.1 (continued)

Substance	UN No.
<u>*/sodium arsenite</u>	2759,2760,2993,2994
<u>*/strychnine</u>	2588,2902,2903,3021
sulfotep	2783,2784,3017,3018
<u>*/sulprofos</u>	2783,2784,3017,3018
2,4,5-T	2766,2999,3000
temephos	2783,2784,3017,3018
TEPP	2783,2784,3017,3018
terbufos	2783,2784,3017,3018
terbumeton	2764,2997,2998
<u>*/thallium compounds</u>	2588,2902,2903,3021
<u>*/thallium sulphate</u>	2588,2902,2903,3021
thiometon	2783,2784,3017,3018
<u>*/thionazin</u>	2783,2784,3017,3018
triadimefon	2766,2999,3000
triamiphos	2783,2784,3017,3018
triazophos	2783,2784,3017,3018
<u>*/tributyltin compounds</u>	2786,2787,3019,3020
tricamba	2770,3003,3004
trichlorfon	2783,2784,3017,3018
trichloronat	2783,2784,3017,3018
<u>*/triphenyltin compounds other than fentin acetate and fentin hydroxide</u>	2786,2787,3019,3020
vamidothion	2783,2784,3017,3018
warfarin (and salts of)	3024,3025,3026,3027

\*/ Not ISO common name.

90° (a) Add "3315 chemical sample, toxic, liquid or solid".

Add the following NOTE:

"NOTE: the 3315 chemical sample, toxic, liquid or solid, only concerns samples of chemicals taken for analysis in connection with the implementation of the Convention on the Prohibition of the Development, Production, Stockpiling and Use of Chemical Weapons and on their Destruction. The transport of substances under this entry should be in accordance with the chain of custody and security procedures specified by the Organization for the Prohibition of Chemical Weapons.

The chemical sample may only be transported providing prior approval has been granted by the competent authority or the Director-General of the Organization for the Prohibition of Chemical Weapons."

Add the following marginal:

"609/2609 The 3315 chemical sample, toxic, of 90° (a) should be packed [according to packing instruction [623] in the International Civil Aviation Organization's Technical Instructions for the Safe Transport of Dangerous Goods by Air]\*."

"612/2612 (3): for "8°", read "8° (a) 1."

(5): Insert "8° (a) 2.," between "7° (a) 1.," and "10°".

614/2614 Insert the following paragraphs:

"For the carriage of pesticides, the description of the goods should include an indication of the active ingredients in conformity with the nomenclature approved by ISO, in accordance with the table in marginal 601/2601, 71° to 73°, or the chemical name of the active ingredient(s), e.g. 2783 organophosphorous pesticide, solid, toxic, (propaphos), 6.1, 73° (c), ADR."

"For the carriage of 3315 chemical sample, toxic, 90° (a), a copy of the transport permit, indicating the limit quantities and packing requirements should be attached to the transport document (see also NOTE to 90° (a))."

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\* Note by the secretariat: The text of this packing instruction will be distributed in the form of an addendum to this document.

## Appendix B.5

250 000 (2) Under hazard identification number 639, replace "(flash-point between 23° C and 61° C)" by "(flash-point not above 61° C)".

Table III, insert the following amendments (and the amendments which apply to table I).

Substance identification number (a)	Name of substance (b)	Hazard identification number (c)	Label (d)	Class, item number and letter (e)
1199	Furfuraldehydes	63	6.1 + 3	6.1, 13° (b)
1251	Methyl vinyl ketone, stabilized	639	6.1 + 3	6.1, 8° (a)
1556	Arsenic compound, liquid, n.o.s. inorganic	66	6.1	6.1, 51° (a)
1556	Arsenic compound, liquid, n.o.s. inorganic	60	6.1	6.1 51° (b), (c)
1557	Arsenic compound, solid, n.o.s. inorganic	66	6.1	6.1, 51° (a)
1557	Arsenic compound, solid, n.o.s., inorganic (arsenates, arsenites and arsenic sulphide)	60	6.1	6.1, 51° (b), (c)
1610	(Delete)			
1695	Chloroacetone, stabilized	663	6.1 + 3 + 8	6.1, 10° (a)
1809	Phosphorous trichloride	668	6.1 + 8	6.1, 17° (a)
2295	Methyl chloroacetate	663	6.1 + 3	6.1, 9° (a)
2369	(Delete)			
2477	Methyl isothiocyanate	663	6.1 + 3	6.1, 9° (a)
2487	Phenyl isocyanate	663	6.1 + 3	6.1, 18° (a)
2488	Cyclohexyl isocyanate	663	6.1 + 3	6.1, 18° (a)
2489	(Delete)			
2522	2-Dimethylaminoethyl methacrylate	69	6.1	6.1, 12° (b)
2542	Tributylamine	60	6.1	6.1, 12° (b)
2644	Methyl iodide	66	6.1	6.1, 15° (a)
2658	(Delete)			
2938	(Delete)			
3023	2-Methyl-2-heptanethiol	663	6.1 + 3	6.1, 20° (a)
3073	Vinylpyridines, inhibited	639	6.1 + 3 + 8	6.1, 28° (b)
3241	(Delete)			
3302	2-Dimethylaminoethyl acrylate	60	6.1	6.1, 12° (b)

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