



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 28644.1-2012

**Excepted quantities and packing requirements of dangerous
goods**

危险货物例外数量及包装要求

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Foreword

This standard Chapter 4, Chapter 6, Section 7, Chapter 8 and Chapter 9 is mandatory, the rest are recommended. This standard was drafted in accordance with rules GB/T 1.1-2009 given. This standard and the United Nations "on the Recommendations on the Transport of Dangerous Goods Model Regulations" (sixteenth revised edition) Part 3. Dangerous Goods Lanbiao, special provisions and exceptions

1 Scope

GB 28644.1-2012 is the Chinese national standard on excepted quantities and packing requirements of dangerous goods. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 31 July 2012 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 December 2012. Classification: ICS , CCS A80. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the structure when the exceptions for dangerous goods number of tables, excepted quantities of dangerous goods as well as the number of exceptions to dangerous goods transport The general rule, package, package testing, marking, documents, etc. exemption. This standard applies to dangerous goods packed in excepted quantities transported.

2 Ethylene glycol monomethyl ether 1188 ETHYLENE GLYCOL MONOM-ETHYLETHER 3 III E

1 Acetate, ethylene glycol monomethyl ether acetate 1189 ETHYLENE GLYCOL MONOM-ETHYLETHERACETATE 3 III E1 1190 ethyl ETHYLFORMATE 3 II E2 1191 octanal OCTYLALDEHYDES 3 III E1 1192 ethyl lactate ETHYLLACTATE 3 III E1 1193 ethyl methyl ketone (methyl ethyl ketone) ETHYL METHYL KETONE (METHYLETHYLKETONE) 3 II E2 1195 propanoate ETHYLPROPIONATE 3 II E2 1196 trichlorosilane ETHYLTRICHLOROSILANE 3 8 II E2 1197 extraction liquid flavor EXTRACTS, FLAVOURING, LIQUID 3 II E2 3 III E1 1198 formaldehyde solution, flammable FORMALDEHYDE SOLUTION, FLAMMABLE 3 8 III E1 1199 furfural FURALDEHYDES 6.1 3 II E4 1201 fusel oil FUSELOIL 3 II E2 3 III E1 TABLE 2 (cont.) United Nations Numbering Chinese name English name and description and explanation category Or division secondary The risk package category exception Quantity 1202 gas oil or light fuel oil or diesel oil GAS OIL or DIESEL FUEL or HEATINGOIL, LIGHT 3 III E1 1203 motor gasoline or petrol MOTOR SPIRIT or GASOLINE or PETROL 3 II E

2 Heptane 1206 HEPTANES 3 II E2 1207 hexanal HEXALDEHYDE 3 III E1 1208 hexanes HEXANES 3 II E

2 Printing ink, flammable, or printing inks Related materials (including printing ink dilution Reducing agents), flammable PRINTING INK, flammable or PRINTINGINKRELATED MATERI- AL (includingprintinginkthinningor reducingcompound), flammable 3 I E3 3 II E2 3 III E1 1212 Isobutanol ISO BUTANOL (ISO BUTYL ALCOHOL) 3 III E1 1213 isobutyl acetate ISO BUTYLACETATE 3 II E2 1214 isobutylamine ISO BUTYLAMINE 3 8 II E2 1216 isooctene ISO OCTENES 3 II E2 1218 isoprene, stable ISO PRENE, STABILIZED 3 I E3 1219 isopropanol ISO PROPANOL (ISO PROPYL ALCOHOL) 3 II E2 1220 Isopropyl acetate ISO PROPYLACETATE 3 II E

2 Isopropyl nitrate 1222 ISO PROPYLNITRATE 3 II E2 1223 Kerosene KEROSENE 3 III E1 1224 liquid ketones, not otherwise specified KETONES, LIQUID, NOS 3 II E2 3 III E

1 Mercaptan liquid, flammable, toxic, NOS Predetermined, thiol or liquid mixture, Flammable, toxic, not otherwise specified MERCAPTANS, LIQUID, FLAM- MABLE, TOXIC, NOSorMER- CAPTAN MIXTURE, LIQUID, FLAMMABLE, TOXIC, NOS 3 6.1 II E2 3 6.1 III E1 1229 mesityl MESITYLOXIDE 3 III E1 1230 Methanol METHANOL 3 6.1 II E2 1231 acetate METHYLACETATE 3 II E2 1233 acid methyl amyl METHYLAMYLACETATE 3 III E1 1234 methylal (methylal) METHYLAL 3 II E2 1235 methylamine solution METHYLAMINE, AQUEOUS SOLUTION 3 8 II E2 TABLE 2 (cont.) United Nations Numbering Chinese name English name and description and explanation category Or division secondary The risk package category exception Quantity 1237 butanoate METHYLBUTYRATE 3 II E

2 Methyl METHYLFORMATE 3 I E3 1243 Methyl isobutyl ketone 1245 METHYLISO

BUTYLKETONE 3 II E2 1246 methyl isopropenyl ketone, stable METHYLISO PROPENYL KETONE, STABILIZED 3 II E2 1247 acrylate monomers, stable METHYL METHACRYLATE MONOMER, STABILIZED 3 II E2 1248 propanoate METHYLPROPIONATE 3 II E2 1249 methyl propyl ketone METHYLPROPYLKETONE 3 II E2 1250 methyltrichlorosilane METHYLTRICHLOROSILANE 3 8 II E2 1259 nickel carbonyl NICKELCARBONYL 6.1 3 I E5 1261 nitromethane NITROMETHANE 3 II E2 1262 octane OCTANES 3 II E

2 Paint (including paint, lacquer, enamel, Colorants, shellac, varnish, polish, Liquid filler and liquid lacquer base) or Coatings related materials (including paints diluted Diluent or reducing agent) PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound) 3 I E3 3 II E2 3 III E1 1264 sec-acetaldehyde (paraldehyde) PARALDEHYDE 3 III E1 1265 pentane, liquid PENTANES, liquid 3 I E3 3 II E2 1266 Perfumery, containing flammable solvents PERFUMERY PRODUCTS with flammable solvents 3 II E2 3 III E1 1267 crude oil PETROLEUM CRUDE OIL 3 I E3 3 II E2 3 III E

1 Petroleum distillates, or NOS Petroleum products, not otherwise specified PETROLEUM DISTILLATES, NOS or PETROLEUM PRODUCTS, NOS 3 I E3 3 II E2 3 III E1 1272 terpineol PINEOIL 3 III E1 1274 n-propanol n-PROPANOL (PROPYL ALCOHOL, NORMAL) 3 II E2 3 III E1 1275 propionaldehyde PROPIONALDEHYDE 3 II E2 TABLE 2 (cont.) United Nations Numbering Chinese name English name and description and explanation category Or division secondary The risk package category exception Quantity 1276, n-propyl acetate, n-PROPYLACETATE 3 II E2 1277 propylamine PROPYLAMINE 3 8 II E2 1278 1-chloropropane 1-CHLOROPROPANE 3 II E2 1279 1,2-dichloropropane 1,2-DICHLOROPROPANE 3 II E2 1280 oxypropylene PROPYLENE OXIDE 3 I E3 1281 formate, propyl PROPYLFORMATES 3 II E2 1282 pyridin-PYRIDINE 3 II E2 1286 retinol ROSINOIL 3 II E2 3 III E1 1287 rubber solution RUBBER SOLUTION 3 II E2 3 III E1 1288 shale oil SHALE OIL 3 II E2 3 III E

1 Ethanol solution of sodium methoxide in 1289 SODIUM METHYLATE SOLUTION in alcohol 3 8 II E2 3 8 III E1 1292 tetraethylorthosilicate TETRAETHYLSILICATE 3 III E1 1293 Medicinal tinctures TINCTURES, MEDICINAL 3 II E2 3 III E

2.2 E1 1088 Acetal ACETAL 3 II E

2 Acetaldehyde ACETALDEHYDE 3 I E3 1089 TABLE 2 (cont.) United Nations Numbering Chinese name English name and description and explanation category Or division secondary The risk package category exception Quantity Acetone 1090 ACETONE 3 II E

2 Acetone 1091 oil ACETONE OILS 3 II E2 1104 amyl acetate AMYLACETATES 3 III E1 1105 pentanol PENTANOLS 3 II E2 3 III E1 1106 pentylamine AMYLAMINE 3 8 II E2 3 8 III E1 1107 amyl chloride AMYLCHLORIDE 3 II E2 1108 1-pentene (n-pentene) 1-PENTENE

(n-AMYLENE) 3 I E3 1109 pentyl formate AMYLFORMATES 3 III E1 1110 n-amyl methyl ketone n-AMYLMETHYLKETONE 3 III E1 1111 pentanethiol AMYLMERCAPTAN 3 II E2 1112 amyl nitrate AMYLNITRATE 3 III E1 1113 amyl nitrite AMYLNITRITE 3 II E2 1114 Benzene BENZENE 3 II E2 1120 butoxide BUTANOLS 3 II E2 3 III E

1 Butyl acetate BUTYLACETATES 1123 3 II E2 3 III E1 1125 n-butylamine, n-BUTYLAMINE 3 8 II E2 1126 1-bromobutane 1-BROMOBUTANE 3 II E2 1127 chlorobutane CHLOROBUTANES 3 II E2 1128 n-butyl formate n-BUTYLFORMATE 3 II E2 1129 Ding Quan BUTYRALDEHYDE 3 II E2 1130 camphor oil CAMPHOROIL 3 III E1 1133 adhesive, containing flammable liquid ADHESIVES containing flammable liquid 3 I E3 3 II E2 3 III E1 1134 chlorophenyl CHLOROBENZENE 3 III E1 1136 coal tar distillate, flammable COALTARDISTILLATES, FLAM- MABLE 3 II E2 3 III E1 TABLE 2 (cont.) United Nations Numbering Chinese name English name and description and explanation category Or division secondary The risk package category exception Quantity Coating solution (including industrial or A surface treatment or coating of other purposes, For example. Primer vehicle, drums or lute Pa barrel fabrics) COATING SOLUTION (includes surfacetreatmentsorcoatingsused forindustrialorotherpurposessuch as vehicle undercoating, drum or barrellining) 3 I E3 3 II E2 3 III E1 1144 crotonic alkynyl CROTONYLENE 3 I E

3 Cyclohexane CYCLOHEXANE 3 II E2 1145 1146 cyclopentane CYCLOPENTANE 3 II E2 1147 decalin DECAHYDRONAPHTHALENE 3 III E1 1148 pairs of diacetone alcohol DIACETONEALCOHOL 3 II E2 3 III E1 1149 dibutyl Ding Mi DIBUTYLEETHERS 3 III E1 1150 1,2-dichloroethylene 1,2-DICHLOROETHYLENE 3 II E2 1152 dichloropentane DICHLOROPENTANES 3 III E

1 Ethylene glycol diethyl ether 1153 ETHYLENEGLYCOLDIETHYL ETHER 3 II E2 3 III E1 1154 diethylamine DIETHYLAMINE 3 8 II E2 1155 diethylether (ether) DIETHYLEETHER (ETHYL ETHER) 3 I E

3 Diethyl ketone 1156 DIETHYLKETONE 3 II E2 1157 diisobutyl ketone DIISO BUTYLKETONE 3 III E1 1158 diisopropylamine DIISO PROPYLAMINE 3 8 II E2 1159 diisopropyl ether DIISO PROPYLEETHER 3 II E2 1160 two aqueous methylamine DIMETHYLAMINE AQUEOUSSOLUTION 3 8 II E2 1161 dimethyl carbonate DIMETHYLCARBONATE 3 II E2 1162 dimethyldichlorosilane DIMETHYLDICHLORO-SILANE 3 8 II E2 1164 dimethylsulfide DIMETHYLSULPHIDE 3 II E2 1165 two dioxane DIOXANE 3 II E2 1166 dioxolane DIOXOLANE 3 II E2 1167 divinyl ether, stable DIVINYLEETHER, STABILIZED 3 I E3 1169 liquid extraction spices EXTRACTS, AROMATIC, LIQUID 3 II E2 3 III E1 TABLE 2 (cont.) United Nations Numbering Chinese name English name and description and explanation category Or division secondary The risk package category exception Quantity Ethanol (alcohol) or ethanol (alcohol Solution) ETHANOL (ETHYL ALCOHOL) or ETHANOLSOLUTION (ETHYLALCOHOLSOLUTION) 3 II E2 3 III E1 1171 ethylene glycol monoethyl ether