

Exemptions from licensing for byproduct material

Exempt concentrations	Timepieces, hands, and dials	Automobile lock illuminators	Balances of precision	Automobile shift quadrants	Marine compasses	Thermostat dials and pointers	Electron tubes	Ion. rad. measuring instruments	Spark gap irradiators	Resins containing Sc-46	Exempt quantities	Self-luminous products	Gas and aerosol detectors	C-14 urea capsules
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Provisions of regulations pertaining to:

The product:															
Manufactured or imported by specific licensee	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Distribution license by NRC only		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Specific final product		✓	✓	✓	✓	✓	✓	✓	✓	✓				✓	
Certain nuclides specified		✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
Quantity limit/product		✓	✓	✓	✓	✓	✓	✓	✓		✓				✓
Concentration or weight % limit	✓										✓				
External radiation level limit		if Pm-147	✓						✓			as packaged			
Various restrictions such as not in toys, adornments, food, beverage, etc.	✓										✓	✓			✓
Safety criteria:													✓	✓	
a. specific dose limits for use, distribution, etc.													✓	✓	
b. unlikely for change in integrity, containment, shielding													✓	✓	
Labeled with:			✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		
a. manufacturer															
b. product name											✓				
c. identity of radionuclide			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
d. quantity per product												✓		✓	✓
e. specific legend												✓		✓	✓
f. safety instructions											✓	✓			

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Provisions of regulations pertaining to:

Specific licensee distributor:															
Testing of inspection lots with specified criteria		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
Visual inspection of every unit		✓	✓	✓	✓	✓	✓		✓	✓					
Approved quality control procedures	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	
Records and reports of transfers	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	
Applicant for a specific license supplies info:															
Description of product and intended uses	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Type, quantity, chemical, physical form of the material		✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓
Changes expected during useful life													✓	✓	
Solubility in water & body fluids													✓	✓	
Design features for containment, shielding, safety under normal & severe handling, storage, use, disposa		✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	
Maximum radiation level & method of measurement		✓	✓					✓					✓	✓	
Degree of access to human beings													✓	✓	
Total quantity expected to be distributed annually													✓	✓	
Expected useful life													✓	✓	

Exemptions from licensing for byproduct material

- Exempt concentrations
- Timepieces, hands, and dials
- Automobile lock illuminators
- Balances of precision
- Automobile shift quadrants
- Marine compasses
- Thermostat dials and pointers
- Electron tubes
- Ion. rad. measuring instruments
- Spark gap irradiators
- Resins containing Sc-46
- Exempt quantities
- Self-luminous products
- Gas and aerosol detectors
- C-14 urea capsules

Provisions of regulations pertaining to:

Applicant for a specific license supplies info:																
Method of labeling or sample labels			✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓
Prototype test procedures and results		✓	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓	
prototype tests and standard specified			✓													
Estimated external radiation dose & dose commitment														✓	✓	
Quality control procedures	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
Demonstration of ALARA	✓															
User: actions restricted													only as instruction			✓
Licensed user: explicit exemption from Part 20		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	